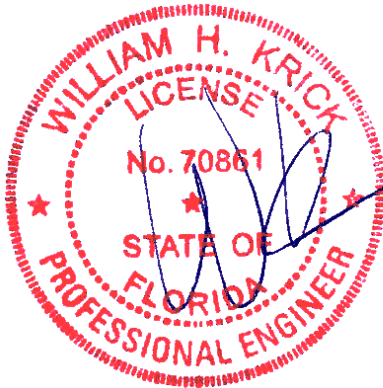




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www.alpineitw.com



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COA #0 278

Florida Certificate of Product Approval #FL 1999

04/30/2025

Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B60868a
Job Description: BORCHARDT RESIDENCE	
Address: FL	

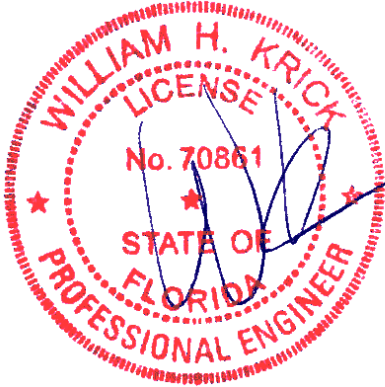
Job Engineering Criteria:	
Design Code: FBC 8th Ed. 2023 Res.	IntelliVIEW Version: 24.02.00C JRef #: 1Y9K8570005
Wind Standard: ASCE 7-22      Wind Speed (mph): 130	Design Loading (psf): 37.00
Building Type: Closed	

This package contains general notes pages, 58 truss drawing(s) and 5 detail(s).

Item	Drawing Number	Truss	Item	Drawing Number	Truss
1	119.25.1524.23985	A1 42' Stepdown Hip	2	119.25.1524.23766	A2 42' Stepdown Hip
3	119.25.1524.25954	A3 42' Stepdown Hip	4	119.25.1524.25971	A4 42' Stepdown Hip
5	119.25.1524.24438	A5 42' Stepdown Hip Girder	6	119.25.1524.25078	B1 30' Stepdown Hip
7	119.25.1524.25156	B2 30' Stepdown Hip	8	119.25.1524.25236	B2a 30' Stepdown Hip
9	119.25.1524.25407	C1 35' Common	10	119.25.1524.24876	C1s 30' Common
11	119.25.1524.24453	D1 30' Common	12	119.25.1524.23969	D1a 30' Common
13	119.25.1524.24985	D1b 30' Common	14	119.25.1524.25406	D1c 30' Common
15	119.25.1524.25281	D1d 30' Common	16	119.25.1524.24642	D1e 30' Special
17	119.25.1524.24625	E1 29' Common	18	119.25.1735.55547	E2 29' Common
19	119.25.1735.59623	E2a 29' Common	20	119.25.1524.24875	E3-DG 29' Gable
21	119.25.1524.23750	G1 29' Common Girder	22	119.25.1524.25846	G2 29' Common
23	119.25.1524.24487	G2a 29' Common Girder	24	119.25.1524.24172	G2b 29' Common Girder
25	119.25.1524.25172	G2c 29' Common	26	119.25.1524.24986	G3-SG 29' Gable
27	119.25.1524.24987	H1 23'2" Scissor	28	119.25.1524.25501	H1a 23'6" Scissor
29	119.25.1524.25547	H1b 23'6" Scissor	30	119.25.1524.25581	H2-SDG 23'6" Gable
31	119.25.1524.24704	K1 15' Common Girder	32	119.25.1524.23948	K2 15' Common
33	119.25.1524.25657	K3-DG 15' Gable	34	119.25.1524.23923	L1-DG 14'6" Gable
35	119.25.1524.25595	M1 13'6" Common	36	119.25.1524.24720	N1 12' Common Girder
37	119.25.1524.24376	N2 12' Common	38	119.25.1524.25580	N3-DG 12' Gable
39	119.25.1524.24219	O1 10'8"13 Mono Girder	40	119.25.1524.24188	O2 9'5"12 Mono
41	119.25.1524.25923	O2s 9'2"4 Mono	42	119.25.1524.25485	Q1 7'9" Mono
43	119.25.1524.24110	Q1a 7'9" Mono	44	119.25.1524.25328	R1 2' Mono
45	119.25.1524.24719	PB1 13'8" Common	46	119.25.1524.24126	PB2 13'8" Common
47	119.25.1524.26033	PB3 6'8" Common	48	119.25.1524.24235	PB4 7'6"6 Common
49	119.25.1524.25235	PB5-G 6'8"8 Gable	50	119.25.1524.25781	V1 29'11"2 Valley



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Site Information:	Page 2:
Customer: Seminole Trusses, Inc.	Job Number: B60868a
Job Description: BORCHARDT RESIDENCE	
Address: FL	

Item	Drawing Number	Truss
51	119.25.1524.25703	V2 23'11"2 Valley
53	119.25.1524.24469	V4 11'11"2 Valley
55	119.25.1524.25798	JA 8'7"14 Hip Jack Girder
57	119.25.1524.24798	JC 4'1"11 Jack
59	GBLDIAG220923	
61	REPCHRD1014	
63	VALTN220723	

Item	Drawing Number	Truss
52	119.25.1524.24360	V3 17'11"2 Valley
54	119.25.1524.25891	V5 5'11"2 Valley
56	119.25.1524.25734	JB 6'2" End Jack
58	119.25.1524.25860	JD 2'1"11 Jack
60	PB160220723	
62	VAL180220723	

## **General Notes**

### **Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:**

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AWC. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high-quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

### **Temporary Lateral Restraint and Bracing:**

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

### **Permanent Lateral Restraint and Bracing:**

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed, and detailed by the Building Designer.

### **Connector Plate Information:**

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at [www.icc-es.org](http://www.icc-es.org).

### **Bearing Information:**

The bearing area factor,  $C_b$ , is considered for the allowable capacity of solid sawn wood bearings supporting trusses that are located a minimum of 3" from the end of the lumber piece.

## **General Notes** (continued)

### **Coated Lumber:**

Coated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Coated lumber has no adjustments to lumber properties. Coated lumber may be more brittle than uncoated lumber. Special handling care must be taken to prevent breakage during all handling activities. Refer to manufacturer literature, specifications, and code evaluation reports for restrictions, details, and requirements.

### **Fire Retardant Treated Lumber:**

Fire retardant treated lumber must be properly re-dried and maintained below 19% or less moisture level through all stages of construction and usage. Fire retardant treated lumber may be more brittle than untreated lumber. Special handling care must be taken to prevent breakage during all handling activities.

### **Key to Terms:**

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

C = Coated lumber.

C-AT = AtTEK coated lumber.

C-FX = FX Lumber Guard coated lumber.

C -TE = TechWood 4400 coated lumber.

CL = Certified lumber.

Des Ld = total of TCDL, BCLL and BCDL Design Load in pounds per square foot.

FRT = Fire Retardant Treated lumber.

FRT-BF = Boraflame Fire Retardant Treated lumber

FRT-DB = D-Blaze Fire Retardant Treated lumber.

FRT-DC = Dricon Fire Retardant Treated lumber.

FRT-FP = FirePRO Fire Retardant Treated lumber.

FRT-FL = FlamePRO Fire Retardant Treated lumber.

FRT-FT = FlameTech Fire Retardant Treated lumber.

FRT-ON = OnWood Fire Retardant Treated lumber.

FRT-PG = PYRO-GUARD Fire Retardant Treated lumber.

FRT-PR = ProWood Fire Retardant Treated lumber.

g = green lumber.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

Ic = Incised lumber.

FJ = Finger Jointed lumber.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the vertical Deflection due to creep, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

## **General Notes** (continued)

### **Key to Terms** (continued):

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(CTL) = maximum Vertical panel point deflection ratios due to Live Load and Creep Component of Dead Load, and maximum long term Vertical panel point deflection in inches due to Total load, including creep adjustment.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

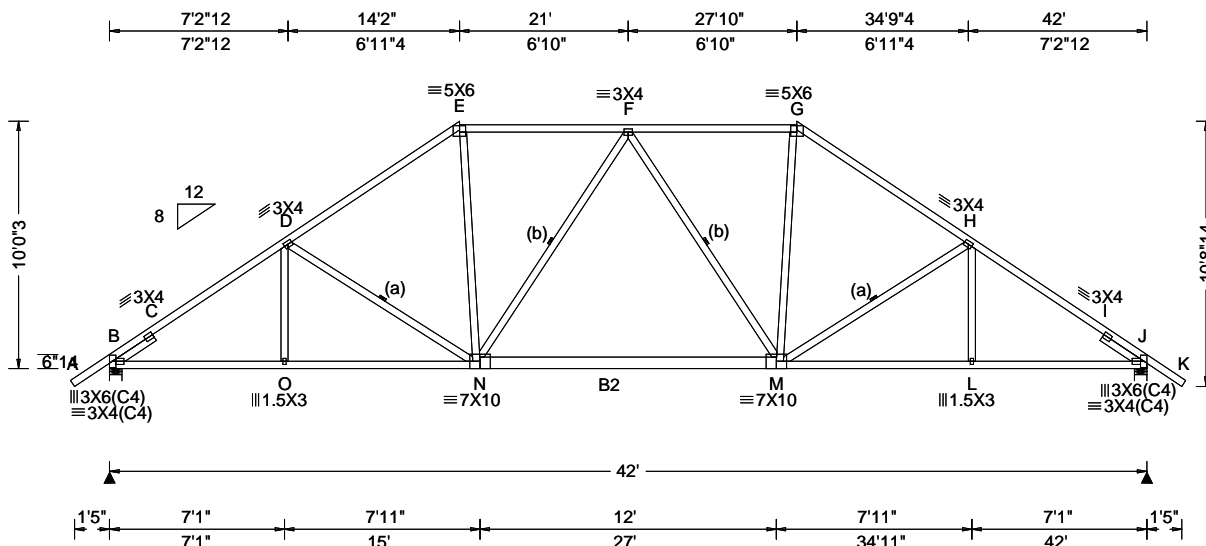
Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

### **References:**

1. AWC: American Wood Council; 222 Catoctin Circle SE, Suite 201; Leesburg, VA 20175; [www.awc.org](http://www.awc.org).
2. ICC: International Code Council; [www.iccsafe.org](http://www.iccsafe.org).
3. Alpine, a division of ITW Building Components Group Inc.: 155 Harlem Ave, North Building, 4th Floor, Glenview, IL 60025; [www.alpineitw.com](http://www.alpineitw.com).
4. TPI: Truss Plate Institute, 2670 Crain Highway, Suite 203, Waldorf, MD 20601; [www.tpinst.org](http://www.tpinst.org).
5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; [www.sbcacomponents.com](http://www.sbcacomponents.com)

SEQN: 29683 / FROM: RJL	HIPS Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: A1 42' Stepped Hip	Cust: R 857 JRef: 1Y9K8570005 T44 / DrwNo: 119.25.1524.23985 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.20 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.128 F 999 360 VERT(CL): 0.227 F 999 240 HORZ(LL): 0.058 J - - HORZ(TL): 0.103 J - - Creep Factor: 2.0 Max TC CSI: 0.487 Max BC CSI: 0.850 Max Web CSI: 0.342 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1847 - / - / - / 864 - / 190 J 1847 - / - / - / 864 - / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 2.2 (Truss) J Brg Wid = 6.0 Min Req = 2.2 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 443 -2612 F - G 346 -1827 C - D 310 -2549 G - H 361 -2211 D - E 361 -2211 H - I 310 -2549 E - F 346 -1827 I - J 444 -2612

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'  
Rt Slider: 2x4 SP #3; block length = 1.958'

#### Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.)nails @ 6" oc.  
(b) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3", min.)nails @ 6" oc.

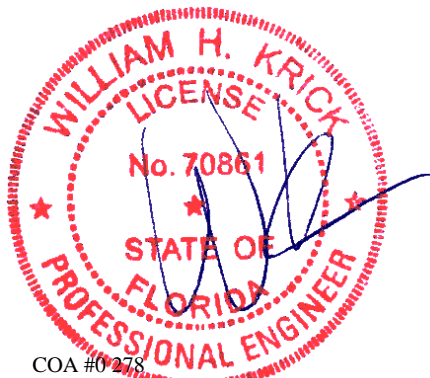
#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



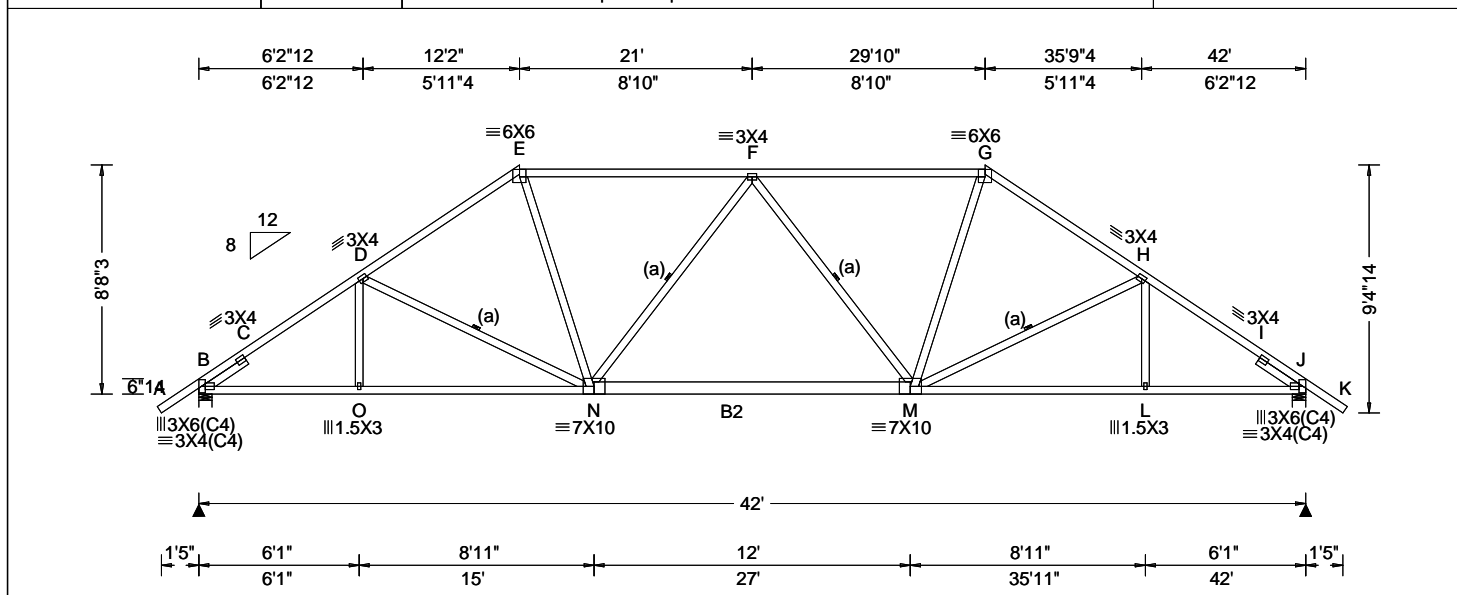
COA #0278

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**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
**\*\*IMPORTANT\*\*** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.  
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.  
For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbccomponents.com](http://sbccomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)

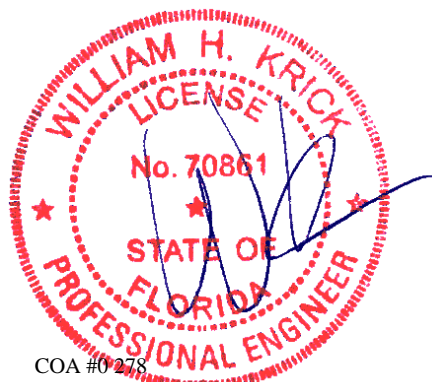
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29685 / FROM: RJL	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: A2 42' Stepped Hip	Cust: R 857 JRef: 1Y9K8570005 T43 / DrwNo: 119.25.1524.23766 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.20 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.137 F 999 360 VERT(CL): 0.244 F 999 240 HORZ(LL): 0.060 I - - HORZ(TL): 0.107 I - - Creep Factor: 2.0 Max TC CSI: 0.724 Max BC CSI: 0.842 Max Web CSI: 0.438 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1830 - / - / - / 854 / 99 / 164 J 1830 - / - / - / 854 / 99 / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 2.2 (Truss) J Brg Wid = 6.0 Min Req = 2.2 (Truss) Bearings B & J are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 393 -2592 F - G 374 -2066 C - D 324 -2528 G - H 389 -2234 D - E 389 -2234 H - I 325 -2528 E - F 374 -2066 I - J 393 -2592

<b>Lumber</b> Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; B2 2x6 SP #1; Webs: 2x4 SP #3; Lt Slider: 2x4 SP #3; block length = 1.958' Rt Slider: 2x4 SP #3; block length = 1.958'	<b>Bracing</b> (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.	<b>Loading</b> Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	<b>Wind</b> Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	<b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - O 2026 -174 M - L 2024 -165 O - N 2024 -175 L - J 2026 -164 N - M 2272 -233	<b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. E - N 808 -62 M - G 808 -62
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COA #0278

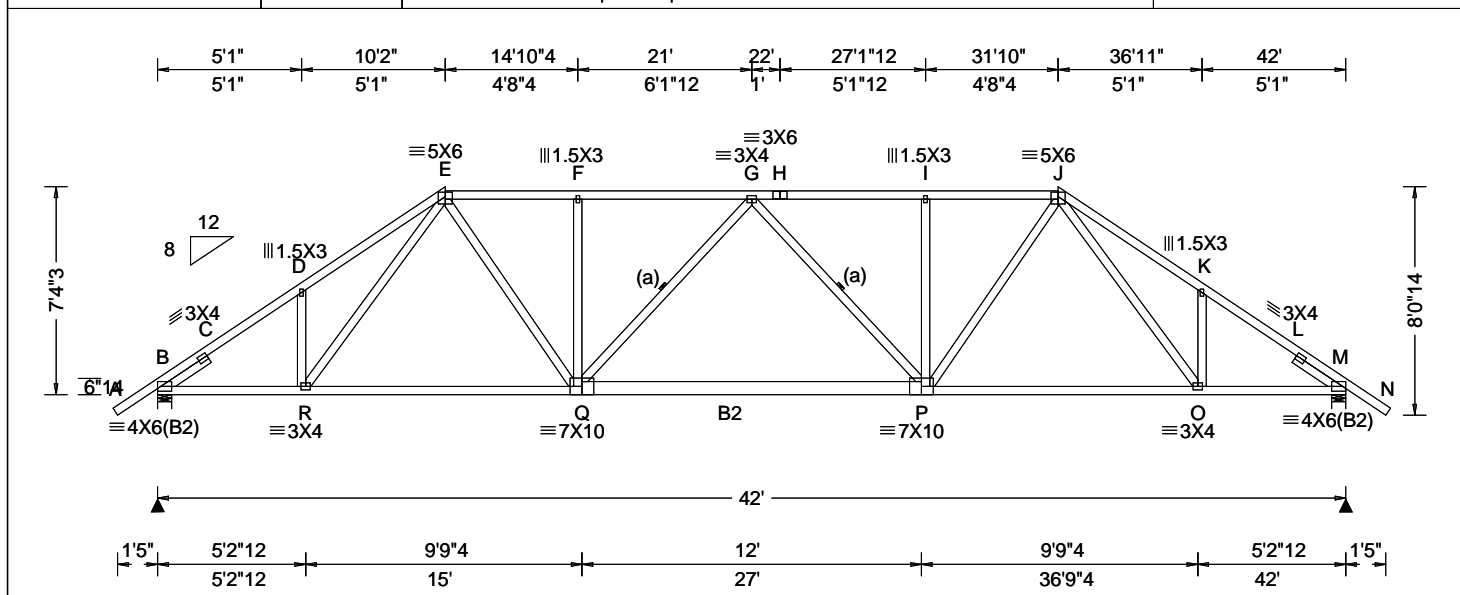
Florida Certificate of Product Approval #FL 1999

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For more information see these web sites: Alpine: [alpineitw.com](http://alpineitw.com); TPI: [tpinst.org](http://tpinst.org); SBCA: [sbcacomponents.com](http://sbcacomponents.com); ICC: [iccsafe.org](http://iccsafe.org); AWC: [awc.org](http://awc.org)



155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29688 / FROM: RJL	HIPS Qty: 1	Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: A3 42' Stepdown Hip	Cust: R 857 JRRef: 1Y9K8570005 T42 / DrwNo: 119.25.1524.25954 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.20 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.181 G 999 360 VERT(CL): 0.305 G 999 240 HORZ(LL): 0.068 L - - HORZ(TL): 0.115 L - - Creep Factor: 2.0 Max TC CSI: 0.468 Max BC CSI: 0.720 Max Web CSI: 0.442 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1973 - / - / /842 /102 /137 M 1973 - / - / /842 /102 - /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 2.0 (Truss) M Brg Wid = 6.0 Min Req = 2.0 (Truss) Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 358 -2878 H - I 457 -2724 C - D 341 -2813 I - J 462 -2733 D - E 423 -2755 J - K 423 -2755 E - F 462 -2733 K - L 342 -2813 F - G 457 -2724 L - M 358 -2878 G - H 457 -2724

<b>Lumber</b> Top chord: 2x4 SP #1; Bot chord: 2x4 SP SS Dense; B2 2x6 SP #1; Webs: 2x4 SP #3; Lt Slider: 2x4 SP #3; block length = 1.958' Rt Slider: 2x4 SP #3; block length = 1.958'	<b>Bracing</b> (a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.	<b>Loading</b> Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	<b>Wind</b> Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	<b>Maximum Bot Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - R 2255 -199 P - O 2068 -172 R - Q 2068 -186 O - M 2255 -186 Q - P 2888 -309	<b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. E - Q 1159 -146 P - J 1159 -146
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COA #0278

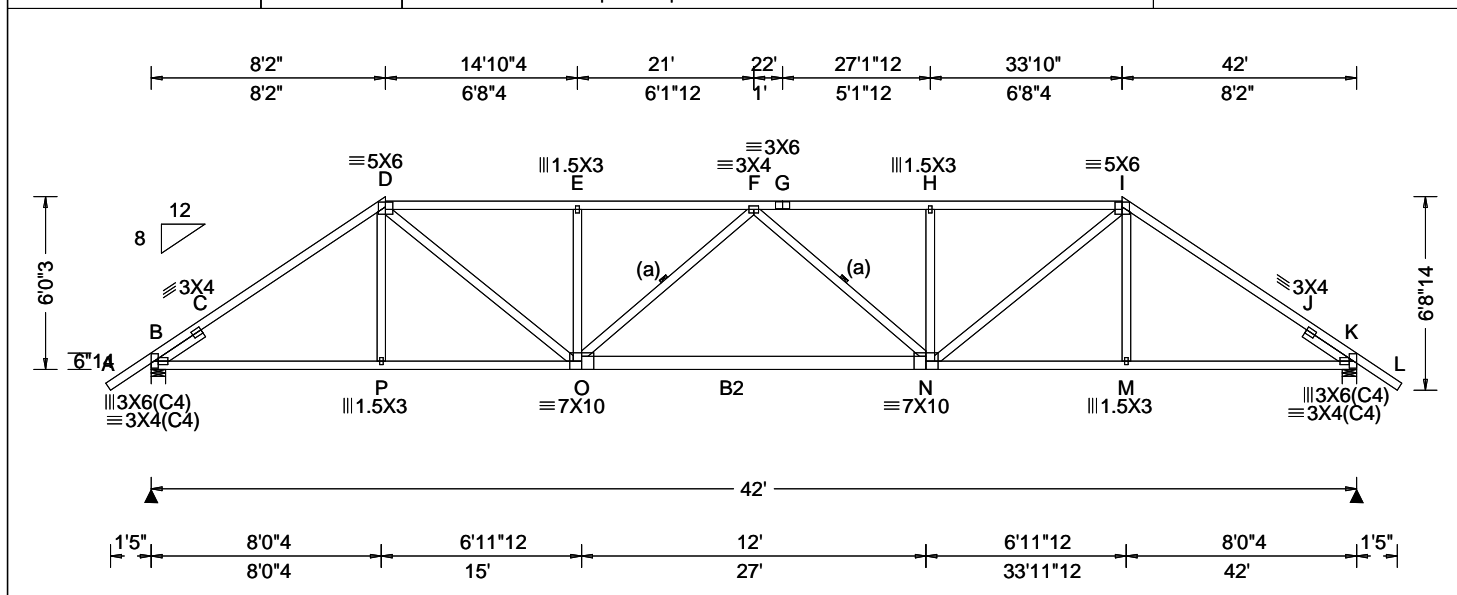
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SEQN: 29690 / FROM: RJL	HIPS Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: A4 42' Stepdown Hip	Cust: R 857 JRRef: 1Y9K8570005 T41 / DrwNo: 119.25.1524.25971 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 4.20 ft Loc. from endwall: not in 6.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.211 F 999 360 VERT(CL): 0.369 F 999 240 HORZ(LL): 0.067 K - - HORZ(TL): 0.118 K - - Creep Factor: 2.0 Max TC CSI: 0.581 Max BC CSI: 0.862 Max Web CSI: 0.507 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1873 - / - / - / 827 / 106 / 110 K 1873 - / - / - / 827 / 106 / - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 2.2 (Truss) K Brg Wid = 6.0 Min Req = 2.2 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; B2 2x6 SP #1; Webs: 2x4 SP #3; Lt Slider: 2x4 SP #3; block length = 1.958' Rt Slider: 2x4 SP #3; block length = 1.958'	Chords Tens.Comp. Chords Tens. Comp. B - P 2063 -226 N - M 2058 -214 P - O 2058 -228 M - K 2064 -213 O - N 3263 -431

Bracing	Maximum Web Forces Per Ply (lbs)
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.	Webs Tens.Comp. Webs Tens. Comp. D - O 1330 -220 N - H 200 -391 E - O 200 -391 N - I 1330 -220

Loading	Maximum Web Forces Per Ply (lbs)
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	Webs Tens.Comp. Webs Tens. Comp. D - O 1330 -220 N - H 200 -391 E - O 200 -391 N - I 1330 -220

Wind	Maximum Web Forces Per Ply (lbs)
Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types.	Webs Tens.Comp. Webs Tens. Comp. D - O 1330 -220 N - H 200 -391 E - O 200 -391 N - I 1330 -220



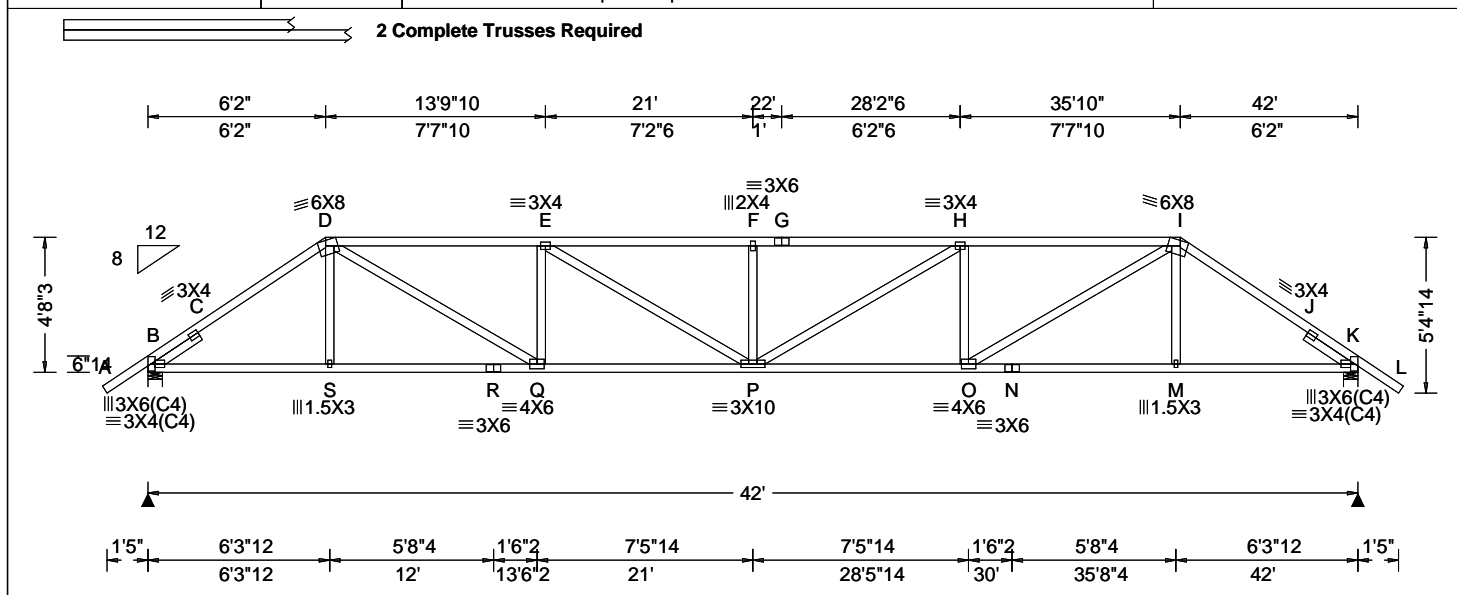
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



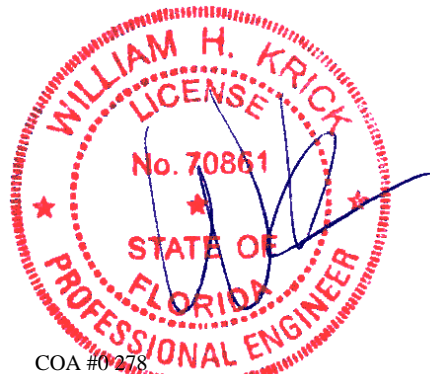
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 4.20 ft Loc. from endwall: NA GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.294 F 999 360 VERT(CL): 0.566 F 879 240 HORZ(LL): 0.078 J - - HORZ(TL): 0.151 J - - Creep Factor: 2.0 Max TC CSI: 0.701 Max BC CSI: 0.648 Max Web CSI: 0.615 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 3058 -/- /- /- /131 -/ K 3058 -/- /- /- /131 -/ Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.8 (Truss) K Brg Wid = 6.0 Min Req = 1.8 (Truss) Bearings B & K are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 92 -2321 G - H 130 -3698 C - D 85 -2287 H - I 114 -3245 D - E 114 -3245 I - J 85 -2287 E - F 130 -3698 J - K 92 -2321 F - G 130 -3698

Lumber	Maximum Bot Chord Forces Per Ply (lbs)
Top chord: 2x4 SP #1; Bot chord: 2x4 SP #1; Webs: 2x4 SP #3; Lt Slider: 2x4 SP #3; block length = 1.958' Rt Slider: 2x4 SP #3; block length = 1.958'	Chords Tens.Comp. Chords Tens. Comp. B - S 1853 -66 P - O 3289 -121 S - R 1859 -64 O - N 1859 -64 R - Q 1859 -64 N - M 1859 -64 Q - P 3289 -121 M - K 1853 -66

Nailnote	Maximum Web Forces Per Ply (lbs)
Nail Schedule: 0.128"x3", min. nails Top Chord: 1 Row @ 12.00" o.c. Bot Chord: 1 Row @ 12.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Webs Tens.Comp. Webs Tens. Comp. D - Q 1613 -58 P - H 479 -11 Q - E 108 -672 H - O 108 -672 E - P 479 -11 O - I 1613 -58

Loading	Maximum Bot Chord Forces Per Ply (lbs)
#1 hip supports 6-2-0 jacks with no webs. Left side jacks have 6-2-0 setback with 0-0-0 cant and 1-6-15 overhang. End jacks have 6-2-0 setback with 0-0-0 cant and 1-6-15 overhang. Right side jacks have 6-2-0 setback with 0-0-0 cant and 1-6-15 overhang.	Chords Tens.Comp. Chords Tens. Comp. B - S 1853 -66 P - O 3289 -121 S - R 1859 -64 O - N 1859 -64 R - Q 1859 -64 N - M 1859 -64 Q - P 3289 -121 M - K 1853 -66

Wind	Maximum Web Forces Per Ply (lbs)
Wind loads and reactions based on MWFRS. Wind loading based on both gable and hip roof types.	Webs Tens.Comp. Webs Tens. Comp. D - Q 1613 -58 P - H 479 -11 Q - E 108 -672 H - O 108 -672 E - P 479 -11 O - I 1613 -58



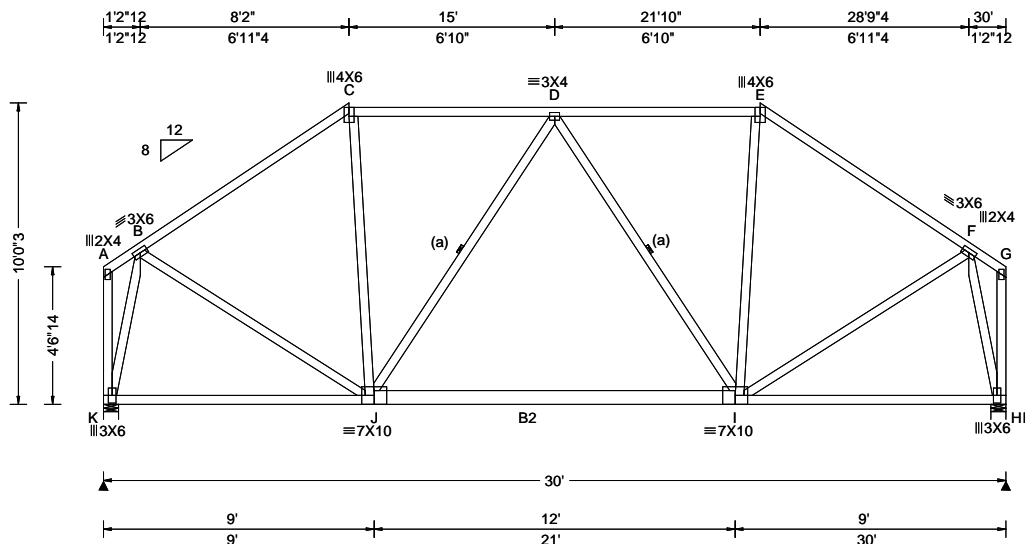
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SEQN: 29715 / FROM: RJL	HIPS Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: B1 30' Stepdown Hip	Cust: R 857 JRRef: 1Y9K8570005 T28 / DrwNo: 119.25.1524.25078 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 17.39 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.036 D 999 360 VERT(CL): 0.062 D 999 240 HORZ(LL): 0.012 H - - HORZ(TL): 0.020 H - - Creep Factor: 2.0 Max TC CSI: 0.374 Max BC CSI: 0.837 Max Web CSI: 0.734  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL K 1293 - / - / /578 /9 /104 L 1293 - / - / /578 /9 /- Non-Gravity Wind reactions based on MWFRS K Brg Wid = 6.0 Min Req = 1.5 (Truss) L Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings K & L are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 304 -1198 D - E 297 -931 C - D 297 -931 E - F 304 -1198

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement. 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

J - I 1057 -245

#### Maximum Web Forces Per Ply (lbs)

Webs Tens.Comp. Webs Tens. Comp.

K - B 353 -1405 I - F 706 -95  
B - J 706 -95 F - H 353 -1406



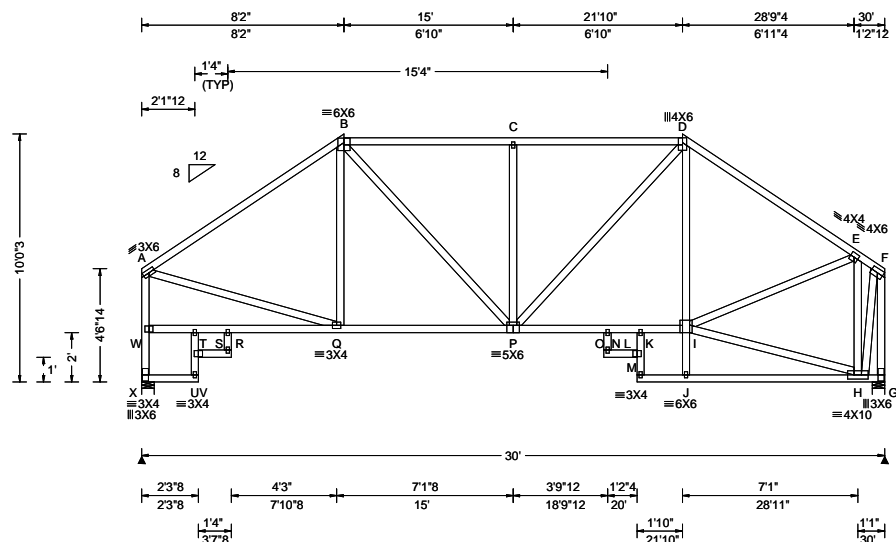
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29718 / FROM: RJL	HIPS Qty: 3	Ply: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: B2 30' Stepdown Hip	Cust: R 857 JRRef: 1Y9K8570005 T12 / DrwNo: 119.25.1524.25156 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 17.39 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.075 R 999 360 VERT(CL): 0.214 R 999 240 HORZ(LL): 0.033 H - - HORZ(TL): 0.079 M - - Creep Factor: 2.0 Max TC CSI: 0.934 Max BC CSI: 0.484 Max Web CSI: 0.613 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL X 1283 - / - / /578 /9 /104 Y 1283 - / - / /578 /9 /- Non-Gravity Wind reactions based on MWFRS X Brg Wid = 6.0 Min Req = 1.5 (Truss) Y Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings X & Y are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 333 - 1420 C - D 432 - 1353 B - C 432 - 1353 D - E 347 - 1418

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

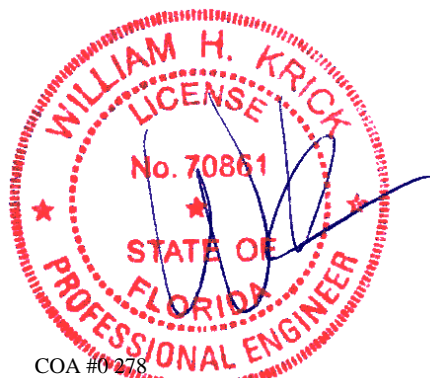
#### Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



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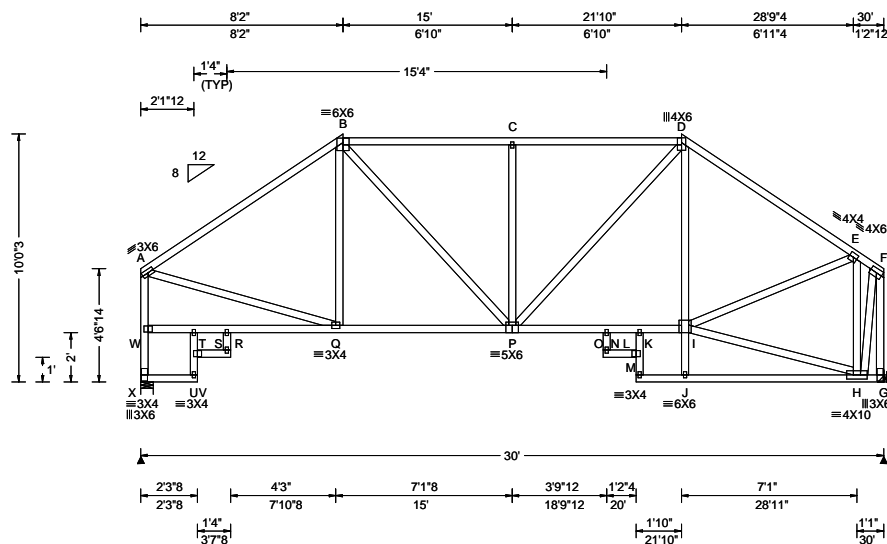
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29756 / FROM: RJL	HIPS Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: B2a 30' Stepdwn Hip	Cust: R 857 JRRef: 1Y9K8570005 T1 / DrwNo: 119.25.1524.25236 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 17.39 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.075 R 999 360 VERT(CL): 0.214 R 999 240 HORZ(LL): 0.033 H - - HORZ(TL): 0.079 M - - Creep Factor: 2.0 Max TC CSI: 0.934 Max BC CSI: 0.484 Max Web CSI: 0.613 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL X 1283 - / - / - /578 /9 /104 G 1283 - / - / - /578 /9 /- Wind reactions based on MWFRS X Brg Wid = 6.0 Min Req = 1.5 (Truss) G Brg Wid = - Min Req = - Bearing X is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 333 - 1420 C - D 432 - 1353 B - C 432 - 1353 D - E 347 - 1418

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Loading

Truss passed check for 20 psf additional bottom  
chord live load in areas with 42"-high x 24"-wide  
clearance.

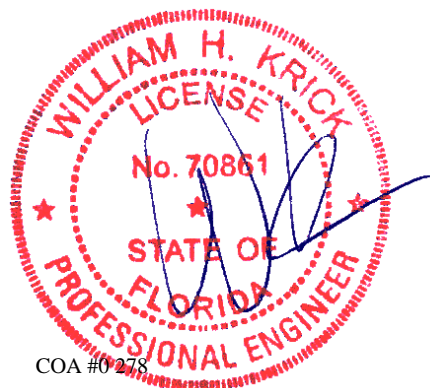
#### Wind

Wind loads based on MWFRS with additional C&C  
member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom  
chord above filler at 24" o.c., including a lateral brace  
at chord ends (If no rigid diaphragm exists at that point)



COA #0278

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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



<b>Lumber</b>	C - D	236 - 2015	G - H	235 - 1996
Top chord: 2x4 SP #1;	D - E	285 - 1670	H - I	388 - 2175
Bot chord: 2x4 SP #1;	E - F	281 - 1273		
Web: 2x4 SP #3;				
Lt Slider: 2x4 SP #3; block length = 1.958'				
Rt Slider: 2x4 SP #3; block length = 1.958'				
	<b>Maximum Bot Chord Forces Per Ply (lbs)</b>			
	Chords	Tens.Comp.	Chords	Tens. Comp.

**Loading**

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

**Wind**

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



Maximum Bot Chord Forces Per Ply (lbs)					
Chords	Tens.Comp.		Chords	Tens. Comp.	
B - O	1606	-90	M - L	1288	-20
O - N	1603	-90	L - K	1588	-94
N - M	1288	-20	K - I	1590	-94

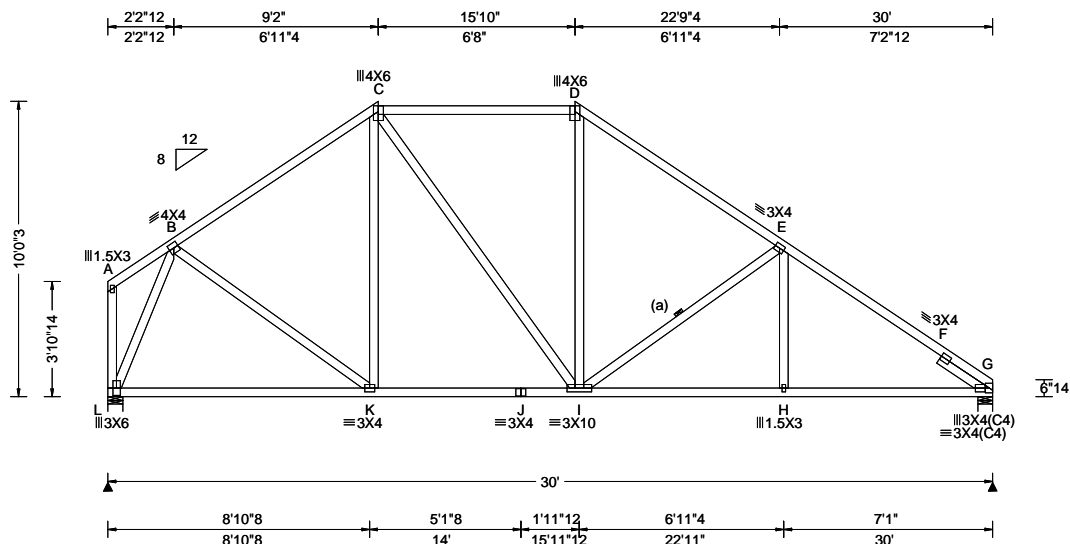
  

Maximum Web Forces Per Ply (lbs)					
Webs	Tens.Comp.		Webs	Tens. Comp.	
N - E	492	0	L - G	92	-382
F - L	455	0			

**ALPINE**  
AN ITW COMPANY

155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30621 / FROM: RJL	COMN	Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: C1s 30' Common	Cust: R 857 JRRef: 1Y9K8570005 T29 / DrwNo: 119.25.1524.24876 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.39 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 I 999 360 VERT(CL): 0.078 I 999 240 HORZ(LL): 0.023 G - - HORZ(TL): 0.041 G - - Creep Factor: 2.0 Max TC CSI: 0.532 Max BC CSI: 0.579 Max Web CSI: 0.752 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL L 1242 - / - / - / 565 - / 172 G 1222 - / - / - / 625 - / - Non-Gravity Wind reactions based on MWFRS L Brg Wid = 6.0 Min Req = 1.5 (Truss) G Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings L & G are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 - 1167 E - F 222 - 1695 C - D 270 - 999 F - G 399 - 1890 D - E 267 - 1313

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Rt Slider: 2x4 SP #3; block length = 1.958'

#### Bracing

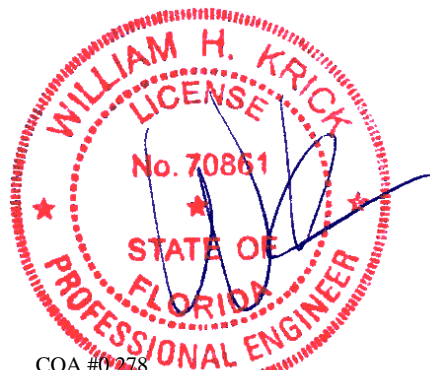
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Left end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



COA #0278

04/29/2025  
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

The drawing illustrates a roof truss system with the following components and dimensions:

- Top Chords:**
  - Member C: 4X6
  - Member D: 4X4
  - Member E: 3X4
  - Member F: 3X4
  - Member G: 4X6(SRS)
- Bottom Chords:**
  - Member A: 2X4 / 4X4
  - Member B: 3X6
  - Member T: 5X6
  - Member S: 3X10
  - Member R: 3X10
  - Member Q: 3X10
  - Member N: 3X10
  - Member J: 3X10
  - Member I: 2X4
- Vertical Members:**
  - Member Z: 3X6
  - Member W: 3X4
  - Member V: 3X4
  - Member U: 3X4
  - Member P: 6X8 / 4X6 / 2X4
  - Member K: 4X10 / 2X4
  - Member H: 3X10
- Diagonal Members:**
  - Member (a): 3X6
- Dimensions:**
  - Horizontal:**
    - 1'10" (74")
    - 9'2" (68")
    - 15'10" (6'8")
    - 20' (4'2")
    - 23'9"4" (3'9"4")
    - 27'10" (4'0"12")
    - 29'7" (1'9")
  - Vertical:**
    - 10'3"
    - 2"
    - 3'10"14"
    - 1'0"3"
    - 1'
  - Other:**
    - 12/8 slope triangle
    - 30' overall width
    - 2'3"8" (2'3"8")
    - 5'3" (8'10"8")
    - 7'1"4" (15'11"12")
    - 2'10" (18'9"12")
    - 3'5"8" (23'5"8")
    - 5'8" (23'11")
    - 6'1" (30')
    - 1'4" (3'7"8")
    - 1'2"4" (20')

<b>Lumber</b>	C - D	297 - 1245	F - G	311 - 2219
Top chord: 2x4 SP #1;	D - E	311 - 1552	G - H	378 - 2697
Bot chord: 2x4 SP #1;				
Webs: 2x4 SP #3; W18 2x4 SP #1;				
	<b>Maximum Bot Chord Forces Per Ply (lbs)</b>			
	Chords	Tens.Comp.	Chords	Tens. Comp.

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5".min.)nails @ 6" oc.

All plates are 1.5X3 except as noted.

(J) Hanger Support Required, by others

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0 278

Florida Certificate of Product Approval #EL 1999

**PROPERTY CONTROL OF Product Approval #PI 1999**

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**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

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North Building, 4th Floor  
Glenview, IL 60025



[illegible]

<b>Lumber</b>	C - D	307 - 1245	F - G	330 - 2155
Top chord: 2x4 SP #1;	D - E	326 - 1551	G - H	362 - 2149
Bot chord: 2x4 SP #1;				
Webs: 2x4 SP #3; W18 2x4 SP #1;				
	<b>Maximum Bot Chord Forces Per Ply (lbs)</b>			
	Chords	Tens.Comp.	Chords	Tens. Comp.

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5".min.)nails @ 6" oc.

All plates are 1.5X3 except as noted.

(J) Hanger Support Required, by others

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0278

Florida Certificate of Product Approval #EL 1999

Formal Certificate of Product Approval #FL 1999

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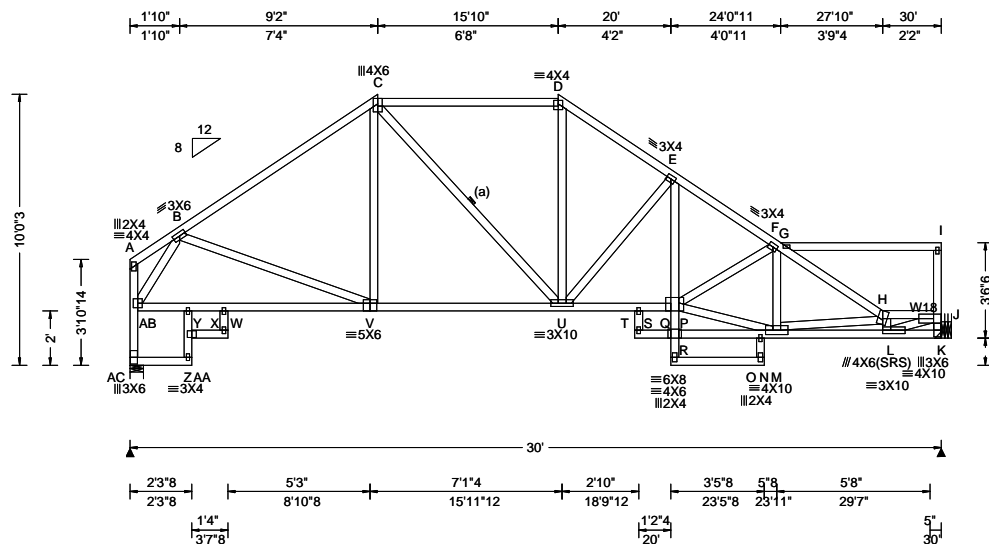
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30611 / FROM: RJL	COMN Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: D1b 30' Common	Cust: R 857 JRRef: 1Y9K8570005 T22 / DrwNo: 119.25.1524.24985 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 16.11 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.113 Q 999 360 VERT(CL): 0.291 W 999 240 HORZ(LL): 0.059 C - - HORZ(TL): 0.116 C - - Creep Factor: 2.0 Max TC CSI: 0.446 Max BC CSI: 0.641 Max Web CSI: 0.677 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL AC 1236 - / - / /575 - / /114 K 1199 - / - / /555 - / - Wind reactions based on MWFRS AC Brg Wid = 6.0 Min Req = 1.5 (Truss) K Brg Wid = - Min Req = - Bearing AC is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 288 - 1446 E - F 405 - 2128 C - D 324 - 1245 F - G 344 - 2053 D - E 350 - 1553 G - H 389 - 2084

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3; W18 2x4 SP #1;

**Bracing**  
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

**Plating Notes**  
All plates are 1.5X3 except as noted.

**Hangers / Ties**  
(J) Hanger Support Required, by others

**Loading**  
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.  
**Wind**  
Wind loads based on MWFRS with additional C&C member design.  
End verticals not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.  
Laterally brace top chord below filler and bottom chord above filler at 24" o.c.,including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



COA #0278

04/29/2025  
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

The drawing shows a roof truss system with the following details:

- Dimensions:**
  - Overall width: 30'
  - Overall height: 10'0"3
  - Horizontal dimensions (top): 1'10", 9'2", 15'10", 20', 22'0"11, 27'10", 30'
  - Horizontal dimensions (bottom): 2'3"8, 5'3", 7'1"4, 2'10", 3'5"8, 5'8", 5'8", 5"
  - Vertical dimensions (left): 2', 3'10"14
  - Vertical dimensions (right): 4'10"6, 1'
- Members and Connections:**
  - Top Chords:** #4X6 C, #4X4 D, #3X4 E, #2X4 F, #3X4 G, #2X4 H, #2X4 I, #2X4 J.
  - Bottom Chords:** #5X6 V, #3X10 U, #6X8 #4X6 #2X4 O N M, #4X10 #2X4 L, #4X6(SRS) #3X10 K.
  - Vertical Members:** #3X6 B, #3X6 C, #3X6 D, #3X6 E, #3X6 F, #3X6 G, #3X6 H, #3X6 I, #3X6 J.
  - Diagonal Members:** #3X6 A, #3X6 B, #3X6 C, #3X6 D, #3X6 E, #3X6 F, #3X6 G, #3X6 H, #3X6 I, #3X6 J.
  - Connections:** AC, AB, ZAA, Y, X, W, T, S, Q, P, R, L, K, W18, J.
- Notes:**
  - (a) indicates a specific connection detail.
  - 12/8 indicates a slope of 12 vertical to 8 horizontal.

<b>Lumber</b>	C - D	346 - 1243	F - G	488 - 2127
Top chord: 2x4 SP #1;	D - E	382 - 1560	G - H	415 - 2004
Bot chord: 2x4 SP #1;				
Webs: 2x4 SP #3; W18 2x4 SP #1;				
	<b>Maximum Bot Chord Forces Per Ply (lbs)</b>			
	Chords	Tens.Comp.	Chords	Tens. Comp.

Bracing		AB - Y	835	- 209	U - S	1731	- 368
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.)nails @ 6" oc.		Y - X	830	- 217	S - P	1691	- 356
		X - V	827	- 236	M - L	2629	- 457
		V - U	1107	- 201			

Plating Notes		Maximum Web Forces Per Ply (lbs)	
Webs	Tens.Comp.	Webs	Tens. Comp.
All plates are 1.5X3 except as noted.			

Hangers / Ties		AC-AB	216 - 1210	M - H	89 - 915
(J) Hanger Support Required, by others		AB- B	289 - 1458	H - L	197 - 859
		D - U	520 - 48	H - J	365 - 2257

**Loading**  
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

**Wind**  
Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

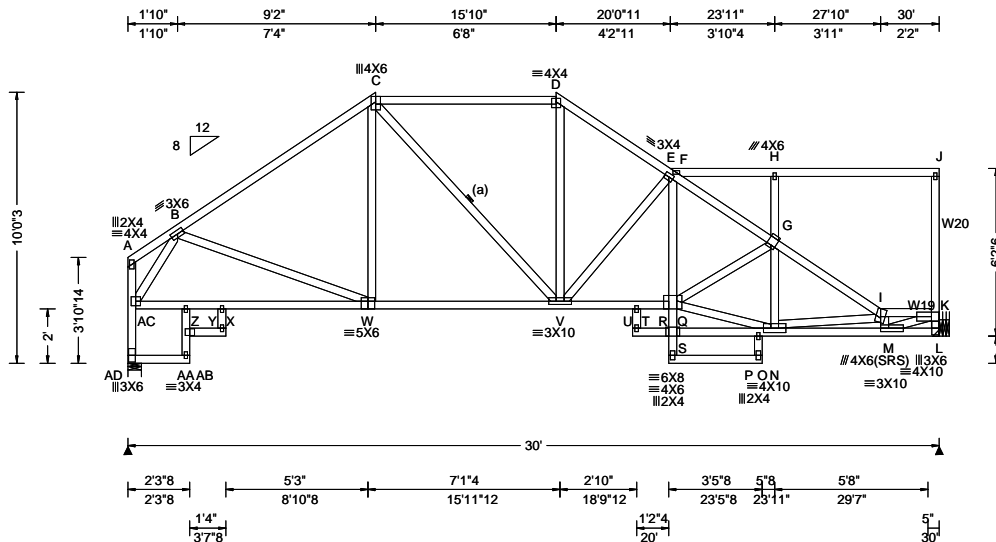
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

COA #0278

04/30/2025  
Florida Certificate of Product Approval #FL 1999

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SEQN: 30615 / FROM: RJL	COMN Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: D1d 30' Common	Cust: R 857 JRef: 1Y9K8570005 T23 / DrwNo: 119.25.1524.25281 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 16.11 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.115 R 999 360 VERT(CL): 0.291 X 999 240 HORZ(LL): 0.059 C - - HORZ(TL): 0.116 C - - Creep Factor: 2.0 Max TC CSI: 0.446 Max BC CSI: 0.661 Max Web CSI: 0.680 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL AD 1236 - / - / - / 586 - / 111 L 1199 - / - / - / 543 / 47 - Wind reactions based on MWFRS AD Brg Wid = 6.0 Min Req = 1.5 (Truss) L Brg Wid = - Min Req = - Bearing AD is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 332 - 1446 E - F 500 - 2015 C - D 374 - 1245 F - G 522 - 2040 D - E 404 - 1550 G - I 602 - 2150

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3; W19, W20 2x4 SP #1;

#### Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



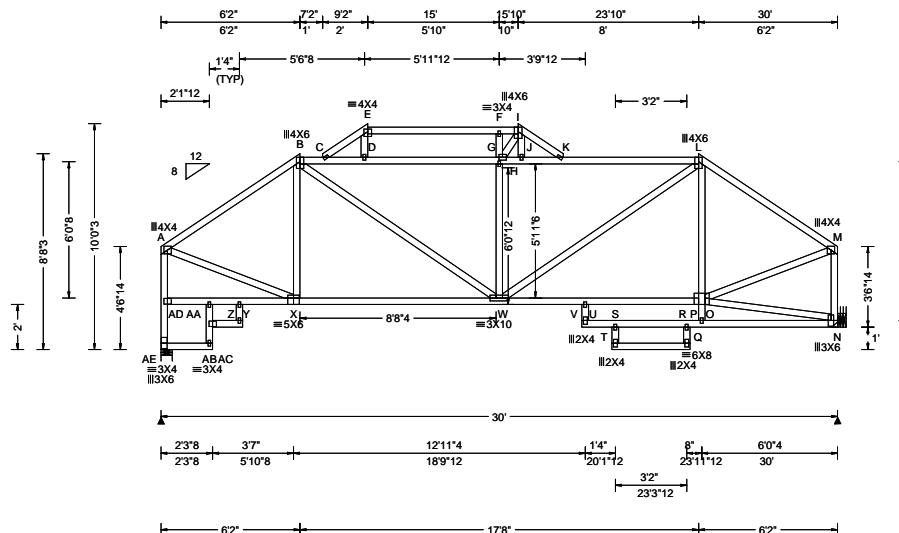
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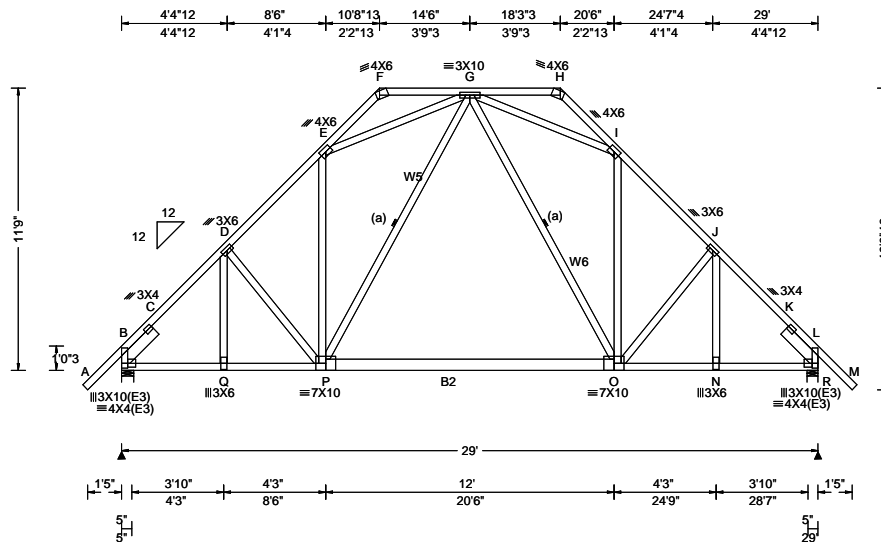
**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30617 / FROM: RJL	SPEC Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: D1e 30' Special	Cust: R 857 JRRef: 1Y9K8570005 T45 / DrwNo: 119.25.1524.24642 SSB / WHK 04/29/2025
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SEQN: 30041 / FROM: RJL	COMN Ply: 1 Qty: 7	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: E1 29' Common	Cust: R 857 JRRef: 1Y9K8570005 T33 / DrwNo: 119.25.1524.24625 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.043 O 999 360 VERT(CL): 0.076 O 999 240 HORZ(LL): 0.042 K - - HORZ(TL): 0.075 K - - Creep Factor: 2.0 Max TC CSI: 0.360 Max BC CSI: 0.733 Max Web CSI: 0.715 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1414 - / - / - / 624 - / 237 R 1414 - / - / - / 624 - / - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.7 (Truss) R Brg Wid = 5.5 Min Req = 1.7 (Truss) Bearings B & R are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 241 -1554 I - J 264 -1412 C - D 202 -1494 J - K 201 -1494 D - E 264 -1412 K - L 240 -1554

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1; B2 2x6 SP #1;  
Webs: 2x4 SP #3; W5, W6 2x4 SP #1;  
Lt Slider: 2x6 SP #1; block length = 1.958'  
Rt Slider: 2x6 SP #1; block length = 1.958'

#### Bracing

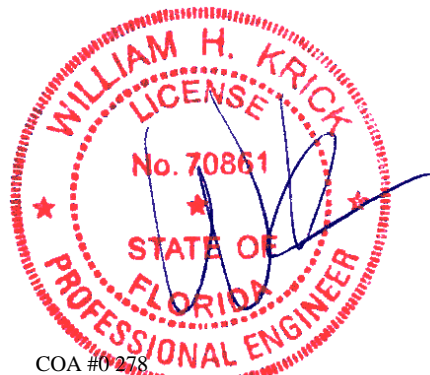
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.



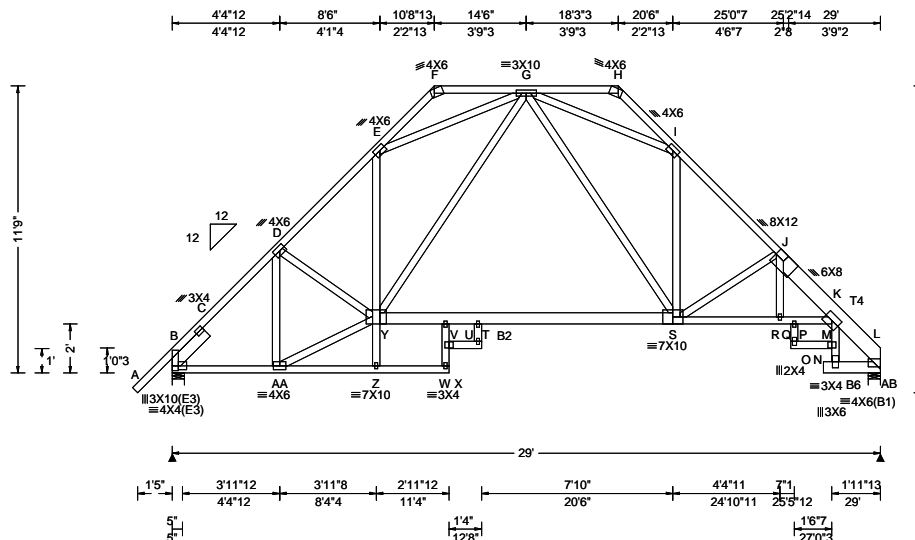
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SEQN: 34730 FROM: RJL	COMN Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: E2 29' Common	Cust: R 857 JRef: 1Y9K8570005 T37 DrwNo: 119.25.1735.55547 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.173 T 999 360 VERT(CL): 0.373 T 929 240 HORZ(LL): 0.159 L - - HORZ(TL): 0.225 L - - Creep Factor: 2.0 Max TC CSI: 0.425 Max BC CSI: 0.691 Max Web CSI: 0.778  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1253 - / - / - /622 /49 /252 AB 1160 - / - / - /617 /32 - /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) AB Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings B & AB are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 240 -1367 I - J 264 -1506 C - D 201 -1307 J - K 247 -1702 D - E 266 -1528 K - L 120 -842

#### Lumber

Top chord: 2x4 SP #1; T4 2x8 SP SS Dense;  
Bot chord: 2x4 SP #1; B2,B6 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.958'

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Purlins

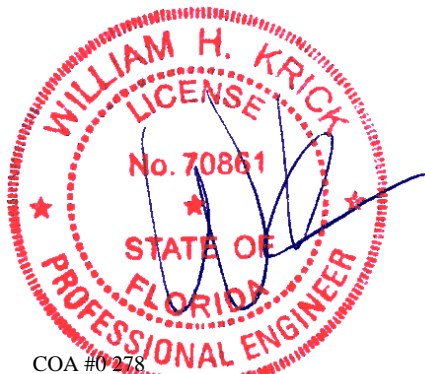
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



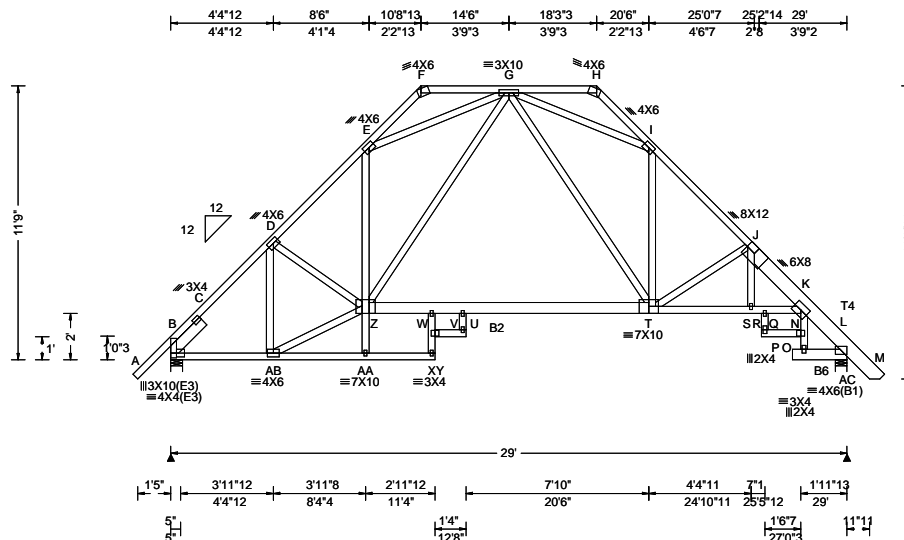
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 34725 FROM: RJL	COMN Ply: 1 Qty: 6	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: E2a 29' Common	Cust: R 857 JRRef: 1Y9K8570005 T20 DrwNo: 119.25.1735.59623 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.140 U 999 360 VERT(CL): 0.372 U 931 240 HORZ(LL): 0.122 L - - HORZ(TL): 0.217 L - - Creep Factor: 2.0 Max TC CSI: 0.408 Max BC CSI: 0.689 Max Web CSI: 0.776  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1251 - / - / - /622 /48 /237 AC 1255 - / - / - /631 /47 - /- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) AC Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings B & AC are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 240 -1364 I - J 243 -1494 C - D 201 -1304 J - K 222 -1686 D - E 243 -1523 K - L 160 -841

#### Lumber

Top chord: 2x4 SP #1; T4 2x8 SP SS Dense;  
Bot chord: 2x4 SP #1; B2,B6 2x6 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.958'

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

#### Purlins

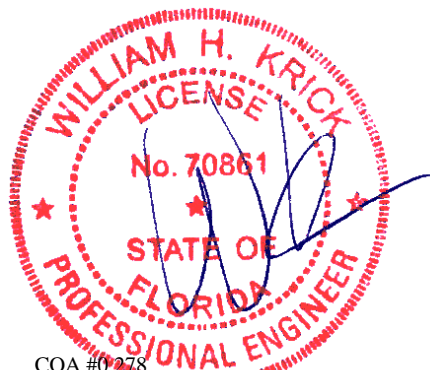
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)



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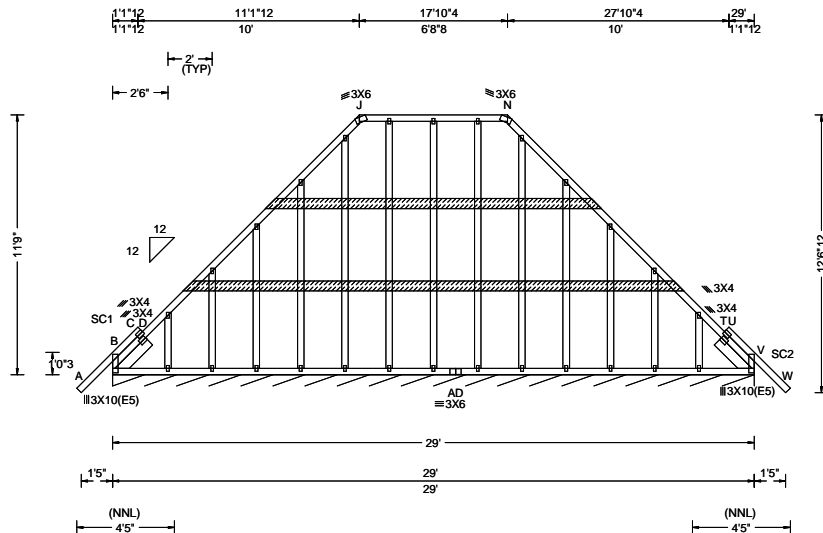
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 30002 / FROM: RJL	GABL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: E3-DG 29' Gable	Cust: R 857 JRRef: 1Y9K8570005 T15 / DrwNo: 119.25.1524.24875 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.003 L 999 360 VERT(CL): 0.006 L 999 240 HORZ(LL): -0.001 U - - HORZ(TL): 0.009 H - - Creep Factor: 2.0 Max TC CSI: 0.190 Max BC CSI: 0.042 Max Web CSI: 0.446  VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 141 /- /- /49 /9 /11 Wind reactions based on MWFRS B Brg Wid = 348 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. B - D 169 -378

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #1;  
Stack Chord: SC2 2x4 SP #1;  
Lt Slider: 2x6 SP #1; block length = 1.958'  
Rt Slider: 2x6 SP #1; block length = 1.958'

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

#### Additional Notes

See DWG GBLDIAG220923 for gable stiffback and diagonal bracing details.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



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04/29/2025

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<b>Lumber</b>	<b>Purlins</b>	C - D	104 - 1813	J - K	168 - 1575
Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;	Collar-tie braced with continuous lateral bracing at 24"	D - E	132 - 2295	K - L	133 - 2382
Bot chord: 2x12 SP #2; B3 2x4 SP #1;	oc. or rigid ceiling.	E - F	168 - 1529	L - M	113 - 2059
Webs: 2x4 SP #3; W4,W7 2x6 SP #1;		F - G	87 - 408	M - N	61 - 1350
Lt Slider: 2x4 SP #3; block length = 1.958'	<b>Wind</b>				
Rt Slider: 2x4 SP #3; block length = 1.958'	Wind loads based on MWFRS with additional G+C				
					<b>Maximum Bot Chord Forces Per Ply (lbs)</b>

Use equal spacing between rows and stagger nails in each row to avoid splitting.

**Plating Notes**  
 (\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30645 /	COMN	Ply: 2	Job Number: B60868a	Cust: R 857 JRef: 1Y9K8570005 T35 /
FROM: RJL		Qty: 2	BORCHARDT RESIDENCE	DrwNo: 119.25.1524.23750
Page 2 of 2			Truss Label: G1 29' Common Girder	SSB / WHK 04/29/2025

**Blocking**

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:  
Bearing 1 located at 0.0' (blocking >= 3.50" if used)  
Bearing 2 located at 28.5' (blocking >= 3.50" if used)



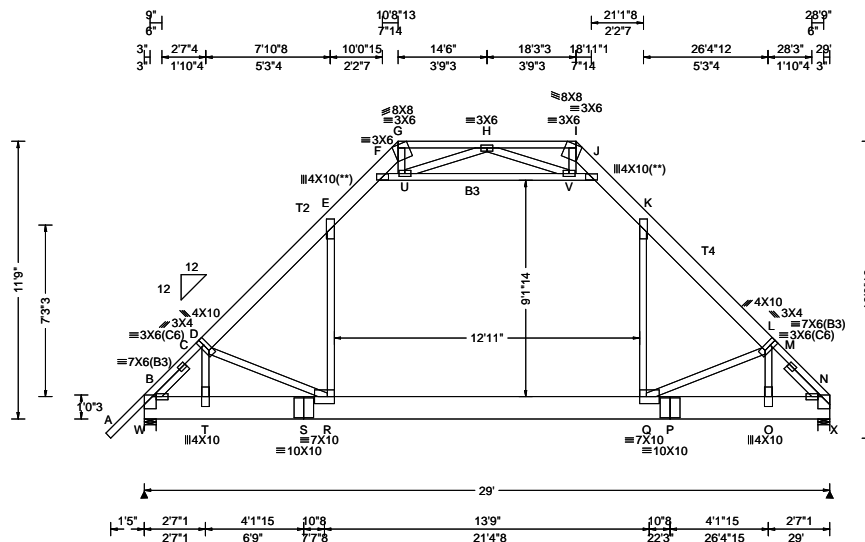
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SEQN: 30637 / FROM: RJL	COMN Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: G2 29' Common	Cust: R 857 JRRef: 1Y9K8570005 T13 / DrwNo: 119.25.1524.25846 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.106 Q 999 360 VERT(CL): 0.237 Q 999 240 HORZ(LL): 0.087 E - - HORZ(TL): 0.195 E - - Creep Factor: 2.0 Max TC CSI: 0.405 Max BC CSI: 0.963 Max Web CSI: 0.545  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL W 2218 - / - / - / 628 / 58 / 250 X 2112 - / - / - / 612 / 41 / - Wind reactions based on MWFRS W Brg Wid = 6.0 Min Req = 2.6 (Truss) X Brg Wid = 6.0 Min Req = 2.5 (Truss) Bearings W & X are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 119 - 1423 H - I 652 0 C - D 208 - 2173 J - K 335 - 1607 D - E 264 - 2635 K - L 266 - 2639 E - F 336 - 1609 L - M 226 - 2204 G - H 657 - 3 M - N 123 - 1446

#### Lumber

Top chord: 2x4 SP #1; T2, T4 2x8 SP SS Dense;  
Bot chord: 2x12 SP #2; B3 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'  
Rt Slider: 2x4 SP #3; block length = 1.958'

#### Plating Notes

(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

#### Loading

Attic room loading from 8-0-8 to 20-11-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

#### Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

#### Blocking

Blocking reinforcement required to prevent buckling of members over the bearings:  
Bearing 1 located at 0.0' (blocking >= 3.50" if used)  
Bearing 2 located at 28.5' (blocking >= 3.50" if used)



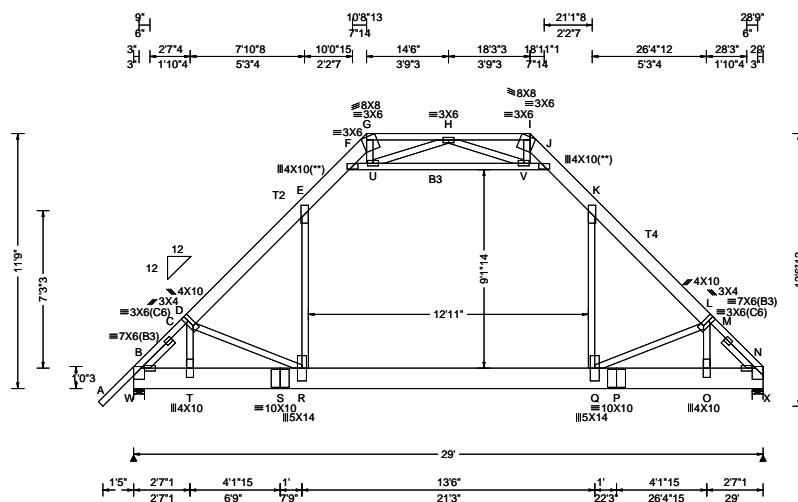
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North Building, 4th Floor  
Glenview, IL 60025

### 5 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.079 Q 999 360 VERT(CL): 0.209 Q 999 240 HORZ(LL): 0.061 E - - HORZ(TL): 0.164 E - - Creep Factor: 2.0 Max TC CSI: 0.396 Max BC CSI: 0.673 Max Web CSI: 0.562  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL W 10006 - / - / - / 928 / 49 / 250 X 8055 - / - / - / 1013 / 33 / - Wind reactions based on MWFRS W Brg Wid = 6.0 Min Req = 2.4 (Truss) X Brg Wid = 6.0 Min Req = 1.9 (Truss) Bearings W & X are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 18 - 1374 H - I 865 0 C - D 31 - 2077 J - K 58 - 1066 D - E 42 - 2136 K - L 43 - 2140 E - F 58 - 1068 L - M 34 - 1762 G - H 870 - 1 M - N 18 - 1160

**Lumber**  
Top chord: 2x4 SP #1; T2,T4 2x8 SP SS Dense;  
Bot chord: 2x12 SP #2; B3 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'  
Rt Slider: 2x4 SP #3; block length = 1.958'

**Nailnote**  
Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 9.00" o.c.  
Bot Chord: 1 Row @ 2.75" o.c.  
Webs : 1 Row @ 4" o.c.  
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.  
In addition, apply (1) 0.22"-0.25" min/max dia. X 4.5" length wood screw (from each outside face) at each joint location.

**Special Loads**  
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 60 plf at -1.62 to 60 plf at 29.00  
PLT: From 28 plf at 8.04 to 28 plf at 9.93  
PLT: From 20 plf at 9.93 to 20 plf at 19.07  
PLT: From 28 plf at 19.07 to 28 plf at 20.96  
PLT: From 100 plf at 8.04 to 100 plf at 20.96  
BC: From 6 plf at -1.62 to 6 plf at 0.00  
BC: From 20 plf at 0.00 to 20 plf at 29.00  
BC: From 330 plf at 2.00 to 330 plf at 21.25  
BC: 1625 lb Conc. Load at 2.00  
BC: 2003 lb Conc. Load at 8.00  
BC: 145 lb Conc. Load at 8.04,20.96  
BC: 3750 lb Conc. Load at 21.25

**Plating Notes**  
(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

**Purlins**  
Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

**Wind**  
Wind loads based on MWFRS.  
Wind loading based on both gable and hip roof types.

Chords	Tens.Comp.	Chords	Tens. Comp.
B - T	1484 -15	Q - P	1212 -17
T - S	1442 -16	P - O	1212 -17
S - R	1442 -16	O - N	1259 -18
R - Q	1394 -2		

Maximum Web Forces Per Ply (lbs)	Webbs	Tens.Comp.	Webbs	Tens. Comp.
B - C	12	-722	V - I	549 -22
E - R	1468	0	V - J	38 -2430
F - U	39	-2436	Q - K	1476 0
G - U	553	-23	O - L	120 -487
U - V	15	-2120	M - N	16 -620



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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30633 / FROM: RJL Page 2 of 2	COMN Ply: 5 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: G2a 29' Common Girder	Cust: R 857 JRef: 1Y9K8570005 T24 / DrwNo: 119.25.1524.24487 SSB / WHK 04/29/2025
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### Blocking

Apply additional nailing over the following bearings with fasteners at 9" oc perpendicular to grain and 4" oc parallel to grain. In lieu of additional nailing, apply blocking reinforcement to prevent buckling of members over the bearings:  
Bearing 1 located at 0.0' (blocking  $\geq$  3.50" if used)

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



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04/30/2025

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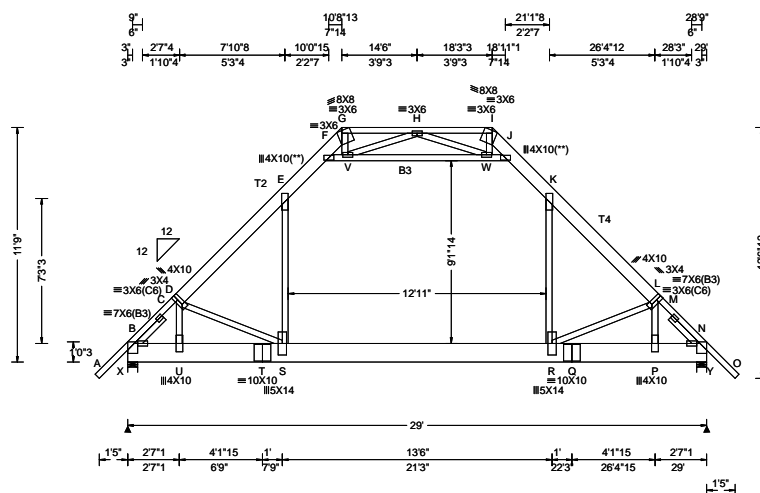
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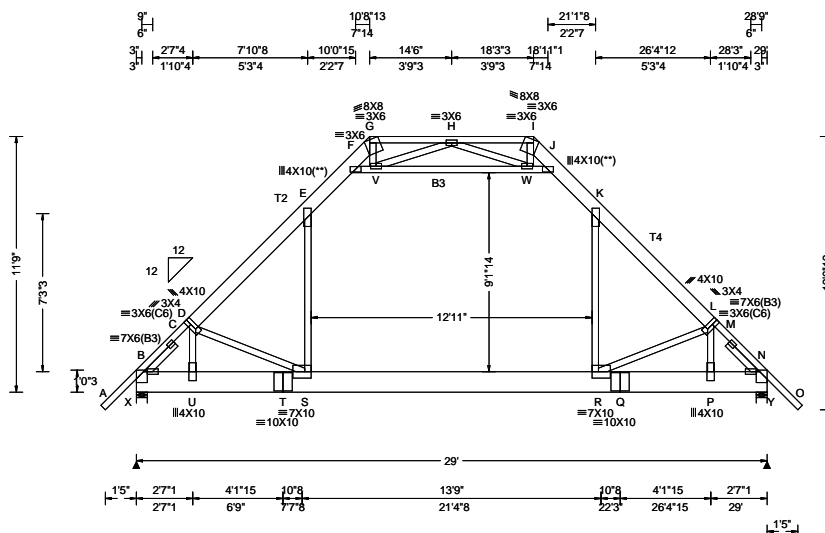
### 5 Complete Trusses Required



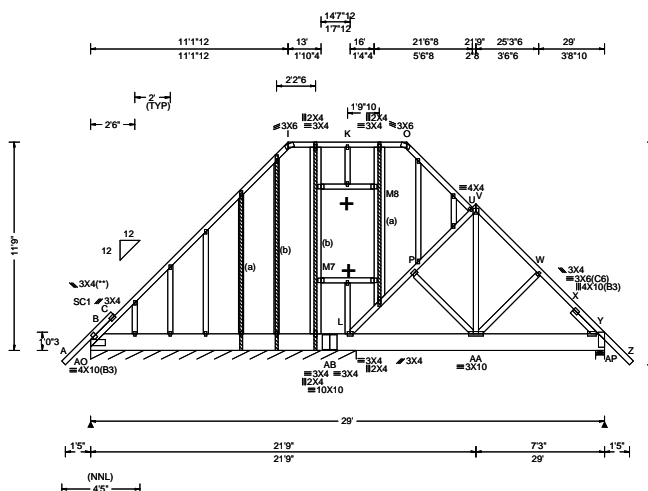




SEQN: 30639 / FROM: RJL	COMN Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: G2c 29' Common	Cust: R 857 JRRef: 1Y9K8570005 T11 / DrwNo: 119.25.1524.25172 SSB / WHK 04/29/2025
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## 2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.67 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.008 K 999 360 VERT(CL): 0.018 K 999 240 HORZ(LL): 0.005 N - - HORZ(TL): 0.012 N - - Creep Factor: 2.0 Max TC CSI: 0.124 Max BC CSI: 0.063 Max Web CSI: 0.597  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity AO*202 - / - /73 /17 /22 AP 1065 - / - /409 - / - Wind reactions based on MWFRS AO Brg Wid = 180 Min Req = - AP Brg Wid = 6.0 Min Req = 1.5 (Truss) Bearings AO & AP are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. L - P 175 -534 V - W 54 -390 P - U 132 -390 W - X 28 -456

### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x12 SP #2;  
Webs: 2x4 SP #3; M7,M8 2x8 SP SS Dense;  
Stack Chord: SC1 2x4 SP #1;  
Rt Slider: 2x4 SP #3; block length = 1.958'

### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails in each row to avoid splitting.

### Plating Notes

All plates are 1.5X3 except as noted.

(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

### Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

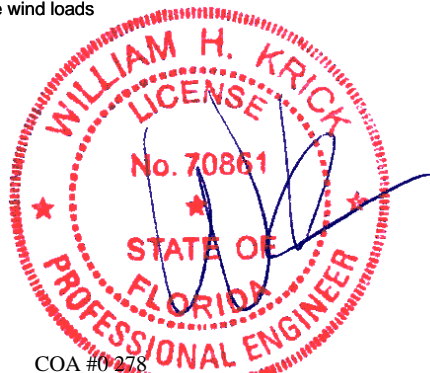
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/228.

### Gable Reinforcement

(a) 2x3 "T" reinforcement. Any species and grade. Full truss height along web member. Attach to the wide face with 10d (0.131"x3",min.) nails @ 4" oc in the web plus (2)10d (0.131"x3",min.) nails in each chord.  
(b) 2x3 "T" reinforcement. Same species and grade as web. Full truss height along web member. Attach to the wide face with 10d (0.131"x3",min.) nails @ 4" oc in the web plus (2)10d (0.131"x3",min.) nails in each chord.

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

+ Member to be laterally braced for out of plane wind loads



COA #0218

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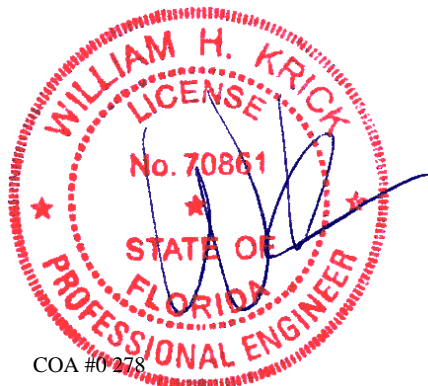
For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

SEQN: 29802 /	GABL	Ply: 2	Job Number: B60868a	Cust: R 857 JRef: 1Y9K8570005 T36 /
FROM: RJL		Qty: 1	BORCHARDT RESIDENCE	DrwNo: 119.25.1524.24986
Page 2 of 2			Truss Label: G3-SG 29' Gable	SSB / WHK 04/29/2025

#### Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in noticable area using 3x6.



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<b>Lumber</b>	B - C	106 - 2498	E - F	100 - 2498
Top chord: 2x4 SP #1;	C - D	35 - 2003	F - G	101 - 2558
Bot chord: 2x4 SP #1;				
Webs: 2x4 SP #3;	<b>Maximum Bot Chord Forces Per Ply (lbs)</b>			
Lt Slider: 2x4 SP #3; block length = 1.958'	Chords	Tens.Comp.	Chords	Tens. Comp.
Rt Slider: 2x4 SP #3; block length = 1.958'	A - B	2147	I - II	2191

Wind loading based on both gable and hip roof types.

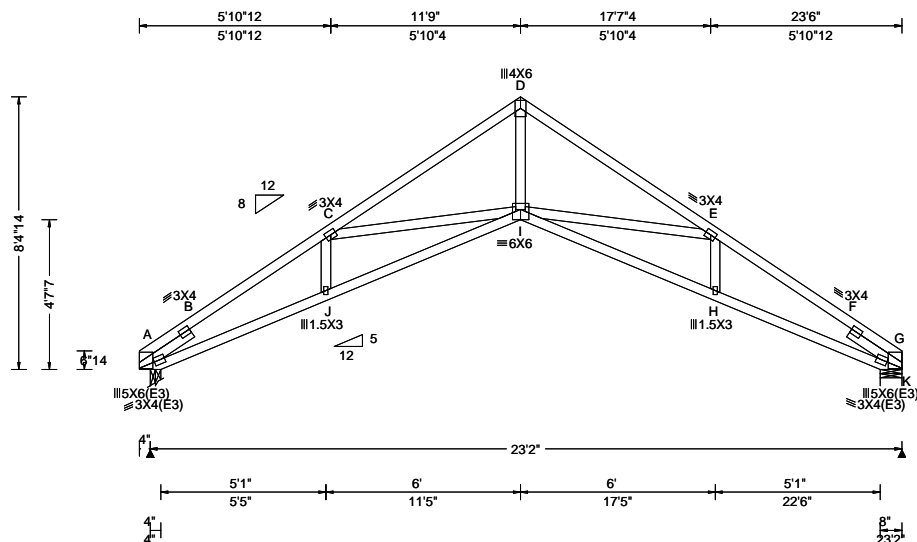
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SEQN: 30595 / FROM: RJL	SCIS Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: H1a 23'6" Scissor	Cust: R 857 JRRef: 1Y9K8570005 T6 / DrwNo: 119.25.1524.25501 SSB / WHK 04/29/2025
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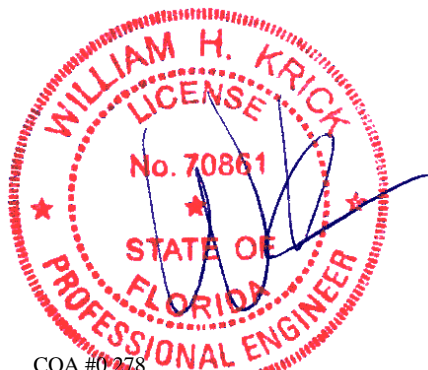
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.187 I 999 360 VERT(CL): 0.368 I 750 240 HORZ(LL): 0.192 G - - HORZ(TL): 0.377 G - - Creep Factor: 2.0 Max TC CSI: 0.589 Max BC CSI: 0.682 Max Web CSI: 0.653 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL A 942 - / - / - /489 /36 /146 K 902 - / - / - /470 /35 /- Non-Gravity Wind reactions based on MWFRS A Brg Wid = 4.0 Min Req = 1.5 (Truss) K Brg Wid = 8.0 Min Req = 1.5 (Truss) Bearings A & G are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 148 -2418 D - E 23 -1979 B - C 93 -2346 E - F 98 -2535 C - D 27 -1974 F - G 126 -2592

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'  
Rt Slider: 2x4 SP #3; block length = 1.958'

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Left cantilever is exposed to wind  
Wind loading based on both gable and hip roof types.



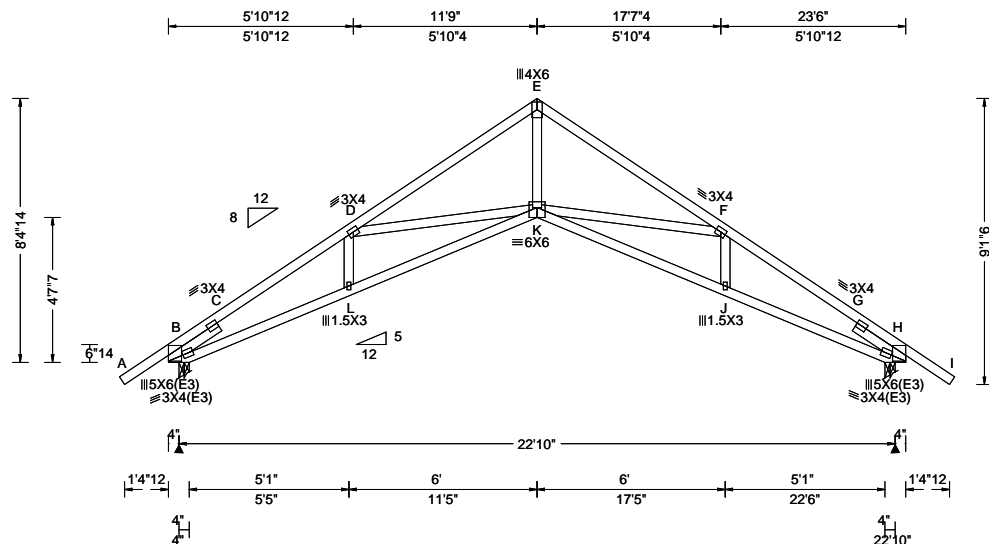
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30591 / FROM: RJL	SCIS	Ply: 1 Qty: 4	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: H1b 23'6" Scissor	Cust: R 857 JRef: 1Y9K8570005 T10 / DrwNo: 119.25.1524.25547 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.196 K 999 360 VERT(CL): 0.373 K 723 240 HORZ(LL): 0.208 G - - HORZ(TL): 0.398 G - - Creep Factor: 2.0 Max TC CSI: 0.645 Max BC CSI: 0.717 Max Web CSI: 0.607 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1017 - / - / /487 /51 /148 H 1013 - / - / /487 /51 - Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 (Truss) H Brg Wid = 4.0 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 173 -2285 E - F 61 -1878 C - D 152 -2213 F - G 166 -2245 D - E 60 -1877 G - H 189 -2305

**Lumber**  
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'  
Rt Slider: 2x4 SP #3; block length = 1.958'

**Wind**  
Wind loads based on MWFRS with additional C&C member design.  
Left and right cantilevers are exposed to wind  
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.	Chords	Tens. Comp.	
B - L	1858 -29	K - J	1943 -51	
L - K	1911 -38	J - H	1893 -44	

Maximum Web Forces Per Ply (lbs)		
Webs	Tens.Comp.	
E - K	1594 0	



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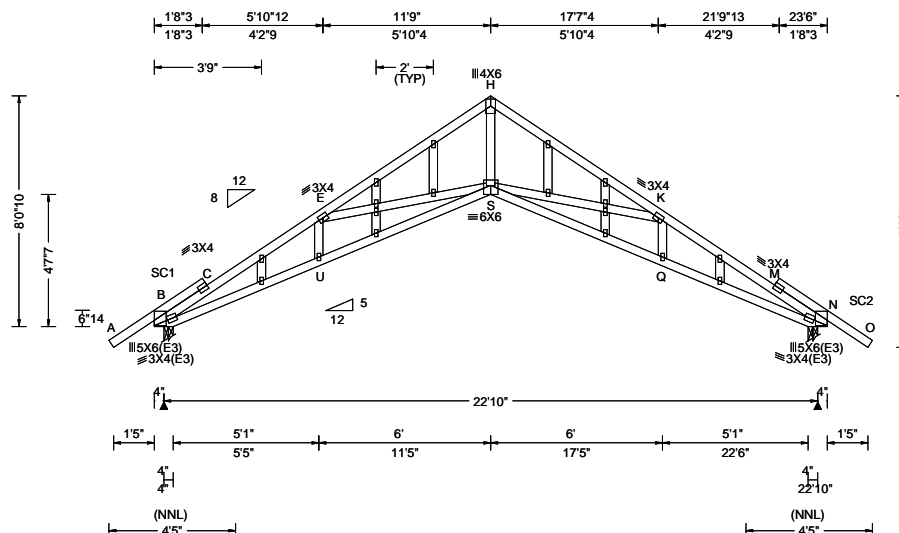
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 29652 / FROM: RJL	GABL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: H2-SDG 23'6" Gable	Cust: R 857 JRRef: 1Y9K8570005 T8 / DrwNo: 119.25.1524.25581 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.345 I 783 360 VERT(CL): 0.610 I 442 240 HORZ(LL): 0.314 N - - HORZ(TL): 0.555 N - - Creep Factor: 2.0 Max TC CSI: 0.525 Max BC CSI: 0.649 Max Web CSI: 0.912 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1304 - / - /570 /111 /196 N 1304 - / - /570 /111 - Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 (Truss) N Brg Wid = 4.0 Min Req = 1.5 (Truss) Bearings B & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 357 -3422 H - K 213 -2692 C - E 434 -3348 K - M 454 -3348 E - H 212 -2692 M - N 378 -3422

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP SS Dense;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #1;  
Stack Chord: SC2 2x4 SP #1;

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Left and right cantilevers are exposed to wind

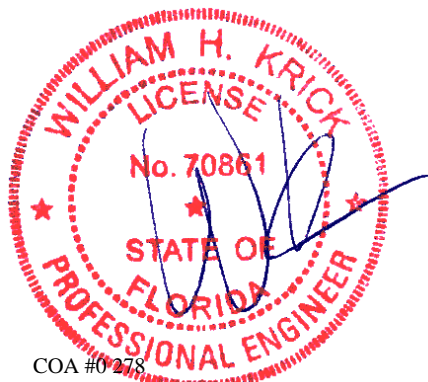
Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

#### Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



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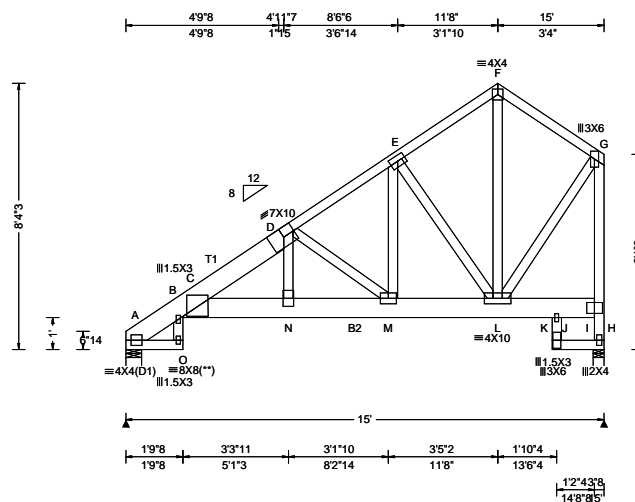
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North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29761 / FROM: RJL	COMN Ply: 3 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: K1 15' Common Girder	Cust: R 857 JRRef: 1Y9K8570005 T18 / DrwNo: 119.25.1524.24704 SSB / WHK 04/29/2025
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3 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.108 C 999 360 VERT(CL): 0.200 C 890 240 HORZ(LL): 0.106 K - - HORZ(TL): 0.195 K - - Creep Factor: 2.0 Max TC CSI: 0.661 Max BC CSI: 0.281 Max Web CSI: 0.508  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL A 4225 -/- /- /34 -/- /- H 5095 -/- /- /- /44 -/- Wind reactions based on MWFRS A Brg Wid = 6.0 Min Req = 1.7 (Truss) H Brg Wid = 4.0 Min Req = 2.0 (Truss) Bearings A & H are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 0 -793 D - E 11 -1590 B - C 0 -759 E - F 8 -773 C - D 0 -2277 F - G 10 -783

#### Lumber

Top chord: 2x4 SP #1; T1 2x8 SP SS Dense;  
Bot chord: 2x4 SP #1; B2 2x8 SP SS Dense;  
Webs: 2x4 SP #3;

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 2.50" o.c.  
Webs : 1 Row @ 4" o.c.  
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 57 plf at 0.00 to 57 plf at 2.23  
TC: From 28 plf at 2.23 to 28 plf at 11.67  
TC: From 57 plf at 11.67 to 57 plf at 15.00  
BC: From 20 plf at 0.00 to 20 plf at 1.79  
BC: From 10 plf at 1.79 to 10 plf at 14.71  
BC: From 20 plf at 14.71 to 20 plf at 15.00  
BC: 1199 lb Conc. Load at 2.23, 4.23, 6.23, 8.23  
10.23  
BC: 1285 lb Conc. Load at 12.23  
BC: 1283 lb Conc. Load at 14.23

#### Plating Notes

All plates are 4X6 except as noted.

(\*\*) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

#### Wind

Wind loads and reactions based on MWFRS.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.

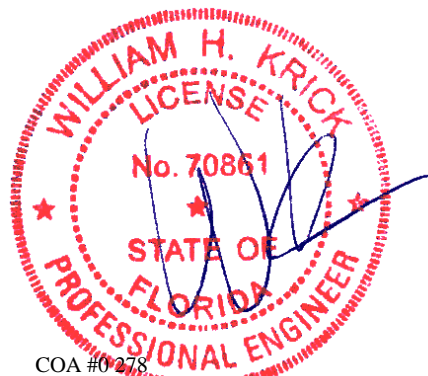
It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.  
  
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point)

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
C - N	2272 0	M - L	1237 -7
N - M	2274 0		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - N	505 0	F - L	800 0
D - M	0 -1185	L - G	1088 -9
M - E	1333 0	I - G	17 -1336
E - L	4 -1061	I - H	15 -1470



COA #0278

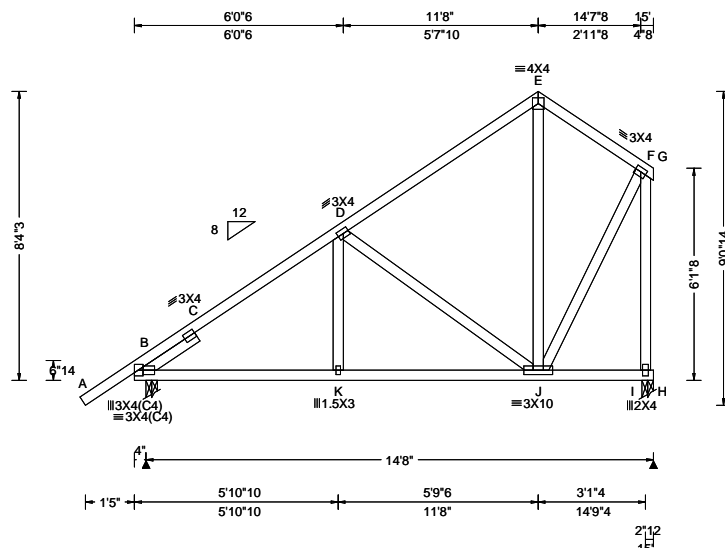
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 30589 / FROM: RJL	COMN Ply: 1 Qty: 4	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: K2 15' Common	Cust: R 857 JRef: 1Y9K8570005 T16 / DrwNo: 119.25.1524.23948 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.012 K 999 360 VERT(CL): 0.023 K 999 240 HORZ(LL): 0.004 J - - HORZ(TL): 0.011 C - - Creep Factor: 2.0 Max TC CSI: 0.270 Max BC CSI: 0.221 Max Web CSI: 0.377  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL B 693 -/- /- /326 /12 /153 H 552 -/- /- /320 /49 -/ Wind reactions based on MWFRS B Brg Wid = 4.0 Min Req = 1.5 (Truss) H Brg Wid = 4.0 Min Req = 1.5 (Truss) Bearings B & I are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 386 -972 C - D 98 -626

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Left cantilever is exposed to wind  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	470 -197	K - J	467 -197

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
J - F	391 -104	F - I	182 -531



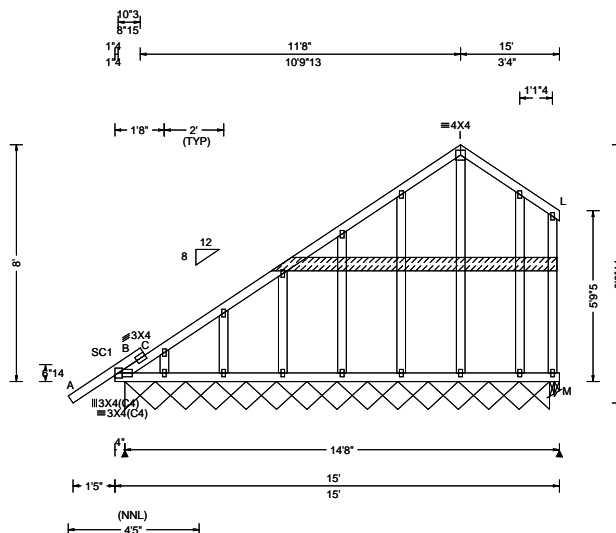
COA #0278

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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29713 / FROM: RJL	GABL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: K3-DG 15' Gable	Cust: R 857 JRef: 1Y9K8570005 T2 / DrwNo: 119.25.1524.25657 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.004 B 999 360 VERT(CL): 0.007 B 534 240 HORZ(LL): -0.002 C - - HORZ(TL): 0.004 C - - Creep Factor: 2.0 Max TC CSI: 0.170 Max BC CSI: 0.108 Max Web CSI: 0.427 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 124 - / - /53 /9 /14 M 52 - / - /30 /6 - /- Wind reactions based on MWFRS B Brg Wid = 172 Min Req = - M Brg Wid = 4.0 Min Req = 1.5 (Truss) Bearings B & N are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 452 -727

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #1;

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Left cantilever is exposed to wind

Wind loading based on both gable and hip roof types.

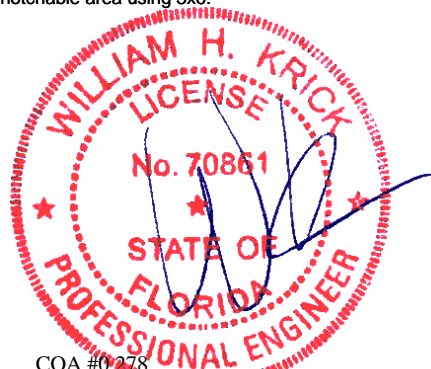
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/799.

#### Additional Notes

See DWG GBLDIAG220923 for gable stiffback and diagonal bracing details.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



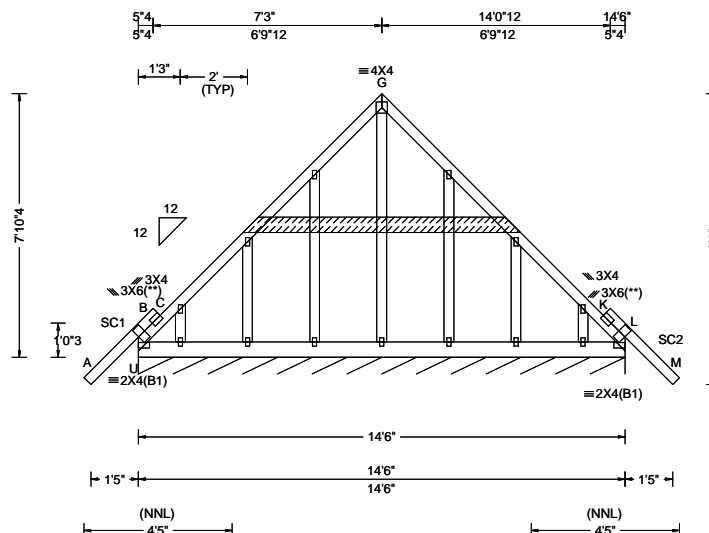
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29776 / FROM: RJL	GABL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: L1-DG 14'6" Gable	Cust: R 857 JRef: 1Y9K8570005 T40 / DrwNo: 119.25.1524.23923 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 L 999 360 VERT(CL): 0.004 L 999 240 HORZ(LL): -0.002 C - - HORZ(TL): 0.004 F - - Creep Factor: 2.0 Max TC CSI: 0.284 Max BC CSI: 0.025 Max Web CSI: 0.411 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL U* 135 /- /- /52 /10 /15 Wind reactions based on MWFRS U Brg Wid = 174 Min Req = - Bearing U is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. B - C 343 -608 K - L 317 -526

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x6 SP #1;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #1;  
Stack Chord: SC2 2x4 SP #1;

#### Plating Notes

All plates are 1.5X3 except as noted.

(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

#### Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

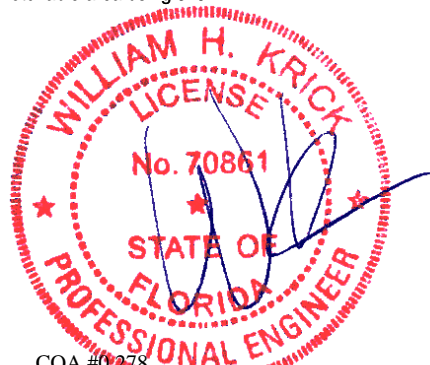
Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/984.

#### Additional Notes

See DWG GBLDIAG220923 for gable stiffback and diagonal bracing details.

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



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04/30/2025  
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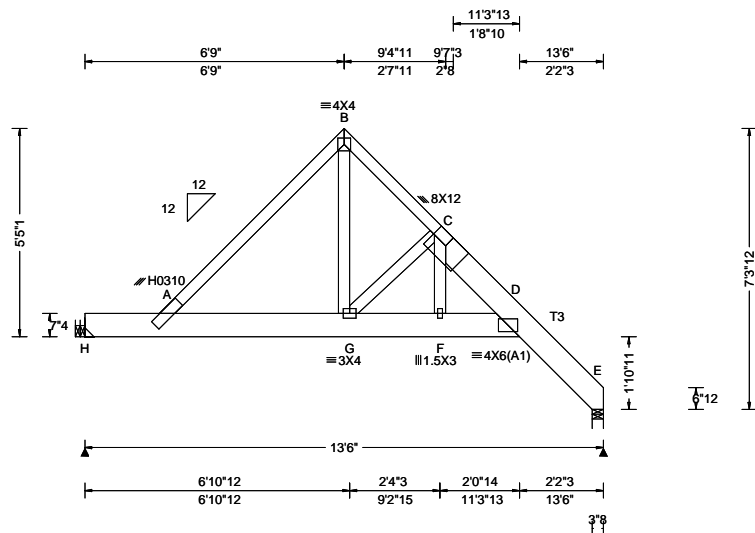
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29763 / FROM: RJL	COMN Ply: 1 Qty: 6	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: M1 13'6" Common	Cust: R 857 JRef: 1Y9K8570005 T47 / DrwNo: 119.25.1524.25595 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.23 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): HS, WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.057 G 999 360 VERT(CL): 0.107 G 999 240 HORZ(LL): -0.005 B - - HORZ(TL): 0.010 B - - Creep Factor: 2.0 Max TC CSI: 0.246 Max BC CSI: 0.258 Max Web CSI: 0.222  VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 514 - / - /0 /236 /18 /144 E 509 - / - /- /265 /79 - /- Wind reactions based on MWFRS H Brg Wid = - Min Req = - E Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearing E is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 102 -667 C - D 95 -626 B - C 133 -631

#### Lumber

Top chord: 2x4 SP #1; T3 2x8 SP SS Dense;  
Bot chord: 2x8 SP SS Dense;  
Webs: 2x4 SP #3;

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.

#### Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - G	397 0	F - D	650 0
G - F	627 0		

#### Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.
B - G	582 -41



COA #0278

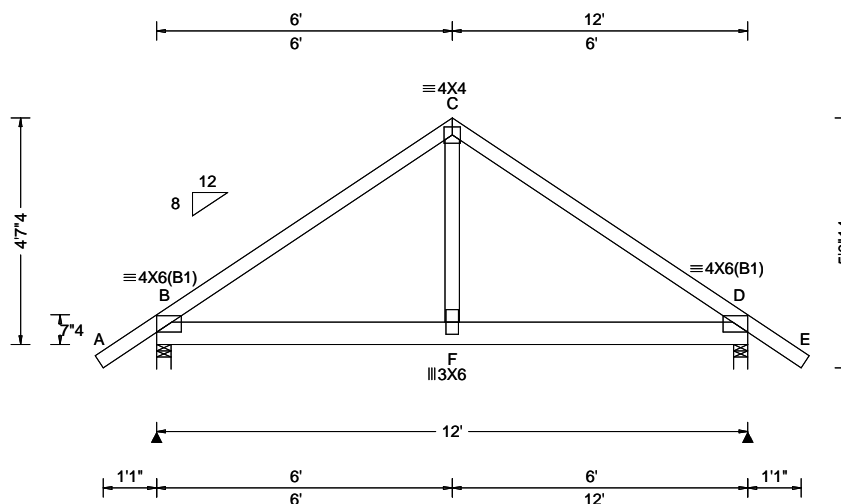
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29767 / FROM: RJL	COMN Ply: 2 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: N1 12' Common Girder	Cust: R 857 JRRef: 1Y9K8570005 T32 / DrwNo: 119.25.1524.24720 SSB / WHK 04/29/2025
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.38 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.013 F 999 360 VERT(CL): 0.024 F 999 240 HORZ(LL): 0.003 D - - HORZ(TL): 0.005 D - - Creep Factor: 2.0 Max TC CSI: 0.091 Max BC CSI: 0.376 Max Web CSI: 0.328 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2003 - / - / - /108 - D 1700 - / - / - /125 - Non-Gravity Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) D Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & D are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 49 -871 C - D 53 -882

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x6 SP #1;  
Webs: 2x4 SP #3;

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @ 12.00" o.c.  
Bot Chord: 1 Row @ 5.75" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 28 plf at -1.25 to 28 plf at 10.27  
TC: From 57 plf at 10.27 to 57 plf at 13.25  
BC: From 5 plf at -1.25 to 5 plf at 0.00  
BC: From 10 plf at 0.00 to 10 plf at 12.00  
BC: From 5 plf at 12.00 to 5 plf at 13.25  
BC: 514 lb Conc. Load at 0.27, 2.27, 4.27, 6.27  
8.27, 10.27

#### Wind

Wind loads and reactions based on MWFRS.  
Wind loading based on both gable and hip roof types.



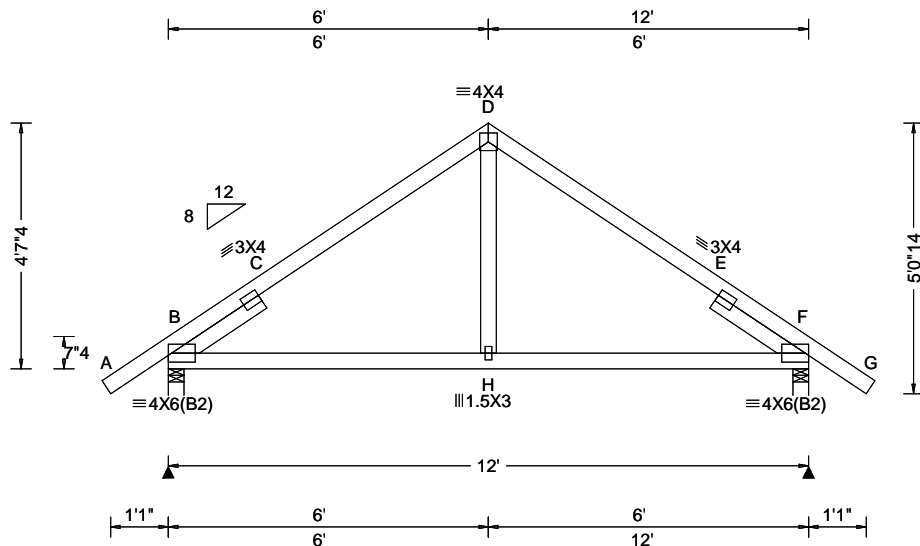
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29765 / FROM: RJL	COMN Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: N2 12' Common	Cust: R 857 JRRef: 1Y9K8570005 T38 / DrwNo: 119.25.1524.24376 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.38 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.030 C 999 360 VERT(CL): 0.056 C 999 240 HORZ(LL): 0.022 C - - HORZ(TL): 0.042 C - - Creep Factor: 2.0 Max TC CSI: 0.277 Max BC CSI: 0.272 Max Web CSI: 0.161 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL B 533 -/- /- /243 /83 /80 F 533 -/- /- /243 /83 -/ Non-Gravity Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) F Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 413 -787 D - E 120 -470 C - D 119 -470 E - F 412 -785

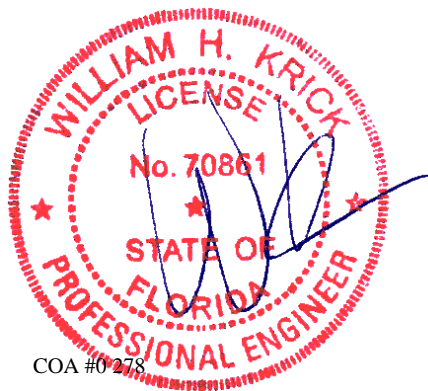
#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'  
Rt Slider: 2x4 SP #3; block length = 1.958'

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.



COA #0278

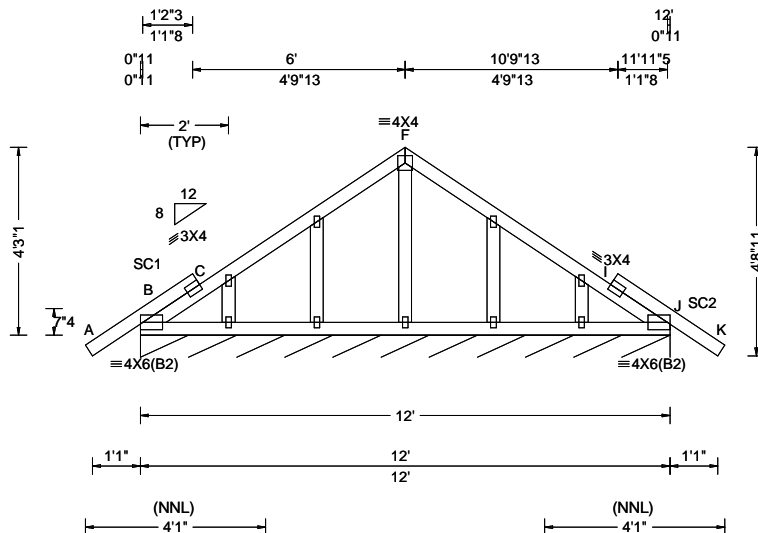
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SEQN: 30012 / FROM: RJL	GABL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: N3-DG 12' Gable	Cust: R 857 JRef: 1Y9K8570005 T30 / DrwNo: 119.25.1524.25580 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 22.20 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 J 999 360 VERT(CL): 0.002 J 999 240 HORZ(LL): -0.000 C - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.096 Max BC CSI: 0.038 Max Web CSI: 0.345 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 100 /- /- /42 /20 /7 Wind reactions based on MWFRS B Brg Wid = 143 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Stack Chord: SC1 2x4 SP #1;  
Stack Chord: SC2 2x4 SP #1;

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss designed to support 1-0-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/648.

#### Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.



COA #0278

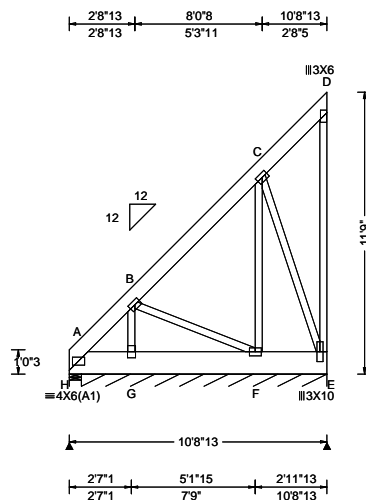
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30651 / FROM: RJL	MONO Ply: 2 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: O1 10'8"13 Mono Girder	Cust: R 857 JRef: 1Y9K8570005 T48 / DrwNo: 119.25.1524.24219 SSB / WHK 04/29/2025
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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 16.48 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.001 C 999 360 VERT(CL): 0.003 C 999 240 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.051 Max BC CSI: 0.020 Max Web CSI: 0.103 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL H 448 - / - /163 /51 /267 E* 176 - / - /56 /19 - Wind reactions based on MWFRS H Brg Wid = 6.0 Min Req = 1.5 (Truss) E Brg Wid = 122 Min Req = - Bearings H & H are a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x8 SP SS Dense;  
Bot chord: 2x12 SP #2;  
Webs: 2x4 SP #3;

#### Nailnote

Nail Schedule: 0.128"x3", min. nails  
Top Chord: 1 Row @12.00" o.c.  
Bot Chord: 1 Row @12.00" o.c.  
Webs : 1 Row @ 4" o.c.  
Use equal spacing between rows and stagger nails  
in each row to avoid splitting.

#### Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)  
TC: From 190 plf at 0.00 to 190 plf at 10.73  
BC: From 20 plf at 0.00 to 20 plf at 10.73

#### Plating Notes

All plates are 4X6 except as noted.

#### Wind

Wind loads based on MWFRS.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



COA #0278

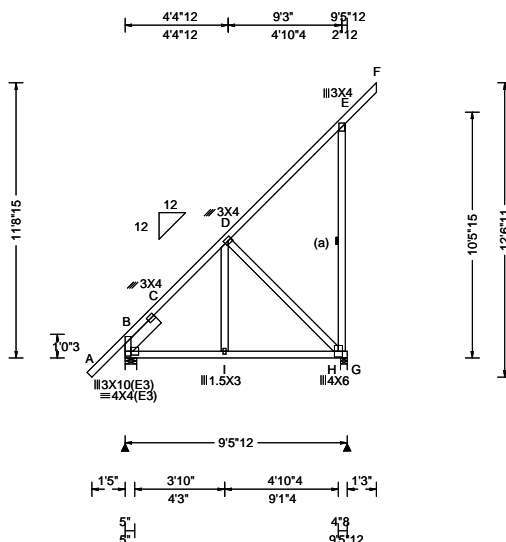
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30647 / FROM: RJL	MONO Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: O2 9'5"12 Mono	Cust: R 857 JRef: 1Y9K8570005 T5 / DrwNo: 119.25.1524.24188 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.66 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 I 999 360 VERT(CL): -0.015 C 999 240 HORZ(LL): -0.004 C - - HORZ(TL): 0.018 C - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.200 Max Web CSI: 0.276  VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 476 -/- /- /209 -/- /209 G 462 -/- /- /385 /104 -/- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) G Brg Wid = 3.5 Min Req = 1.5 (Truss) Bearings B & H are a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 203 -549

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.958'

#### Bracing

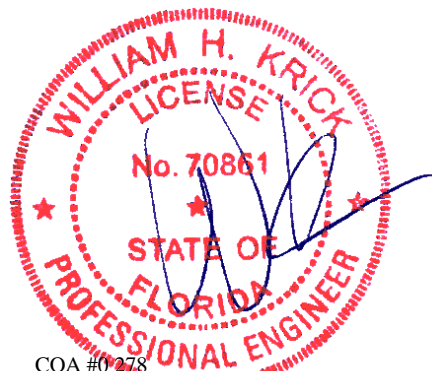
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.



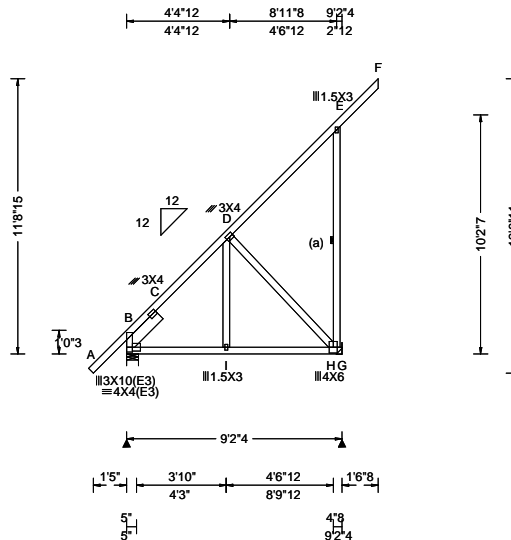
COA #0278

04/30/2025  
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30554 / FROM: RJL	MONO Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: O2s 9'2"x4 Mono	Cust: R 857 JRef: 1Y9K8570005 T57 / DrwNo: 119.25.1524.25923 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.66 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.003 I 999 360 VERT(CL): 0.018 C 999 240 HORZ(LL): -0.001 C - - HORZ(TL): 0.019 C - - Creep Factor: 2.0 Max TC CSI: 0.228 Max BC CSI: 0.179 Max Web CSI: 0.283 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 462 -/- /- /202 -/- /209 G 472 -/- /- /392 /110 -/- Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) G Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 203 -559

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.958'

#### Bracing

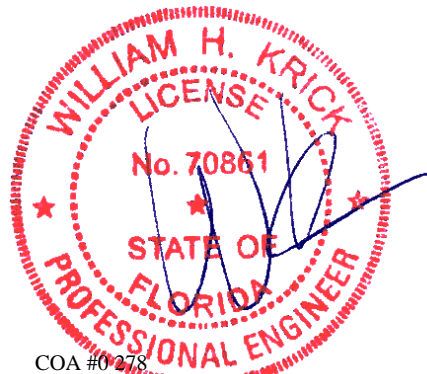
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



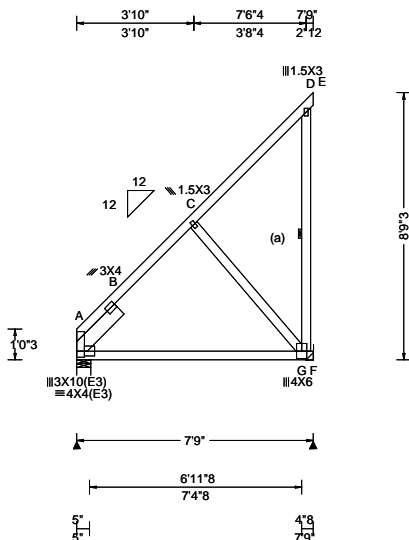
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30059 / FROM: RJL	MONO Ply: 1 Qty: 5	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: Q1 7'9" Mono	Cust: R 857 JRef: 1Y9K8570005 T60 / DrwNo: 119.25.1524.25485 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.017 B 999 360 VERT(CL): 0.024 B 999 240 HORZ(LL): 0.020 B - - HORZ(TL): 0.039 B - - Creep Factor: 2.0 Max TC CSI: 0.240 Max BC CSI: 0.502 Max Web CSI: 0.129  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity A 306 /- /- /152 /- /183 F 313 /- /- /266 /112 /- Wind reactions based on MWFRS A Brg Wid = 5.5 Min Req = 1.5 (Truss) F Brg Wid = - Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.958'

#### Bracing

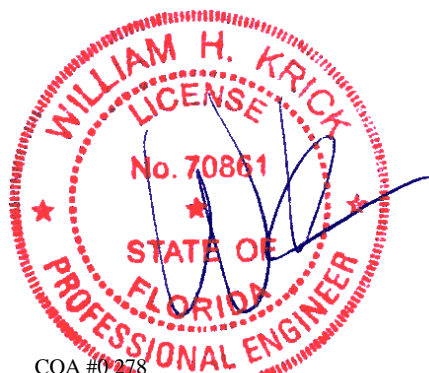
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



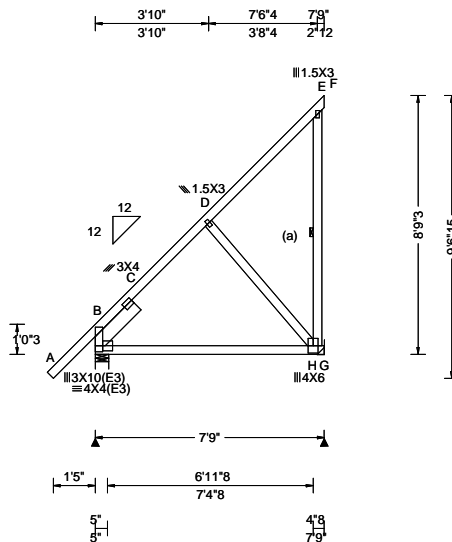
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04/30/2025  
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30057 / FROM: RJL	MONO Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: Q1a 7'9" Mono	Cust: R 857 JRef: 1Y9K8570005 T59 / DrwNo: 119.25.1524.24110 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.014 C 999 360 VERT(CL): 0.019 C 999 240 HORZ(LL): 0.017 C - - HORZ(TL): 0.024 C - - Creep Factor: 2.0 Max TC CSI: 0.184 Max BC CSI: 0.499 Max Web CSI: 0.118 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 415 -/- /178 -/- /214 G 303 -/- /264 /110 -/- Wind reactions based on MWFRS B Brg Wid = 5.5 Min Req = 1.5 (Truss) G Brg Wid = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. B - C 369 -584

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x6 SP #1; block length = 1.958'

#### Bracing

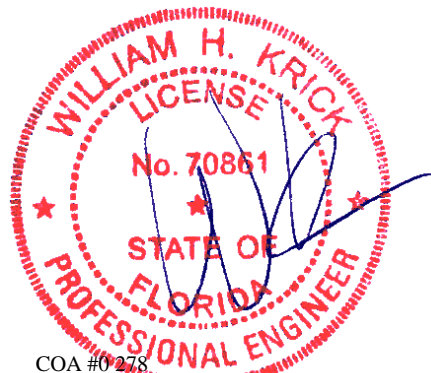
(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Right end vertical not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



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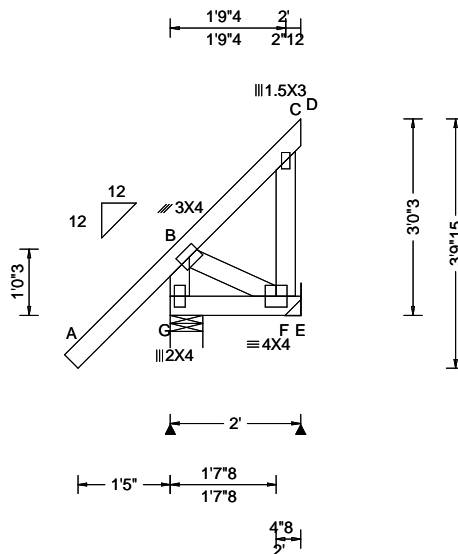
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 30053 / FROM: RJL	MONO Ply: 1 Qty: 6	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: R1 2' Mono	Cust: R 857 JRef: 1Y9K8570005 T52 / DrwNo: 119.25.1524.25328 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 B 999 360 VERT(CL): 0.000 B 999 240 HORZ(LL): -0.000 C - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.252 Max BC CSI: 0.030 Max Web CSI: 0.073 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G 215 /- /- /71 /- /77 E 47 /- /- /71 /37 /- Wind reactions based on MWFRS G Brg Wid = 6.0 Min Req = 1.5 (Truss) E Brg Wid = - Min Req = - Bearing G is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Hangers / Ties

(J) Hanger Support Required, by others

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
End verticals not exposed to wind pressure.  
Wind loading based on both gable and hip roof types.



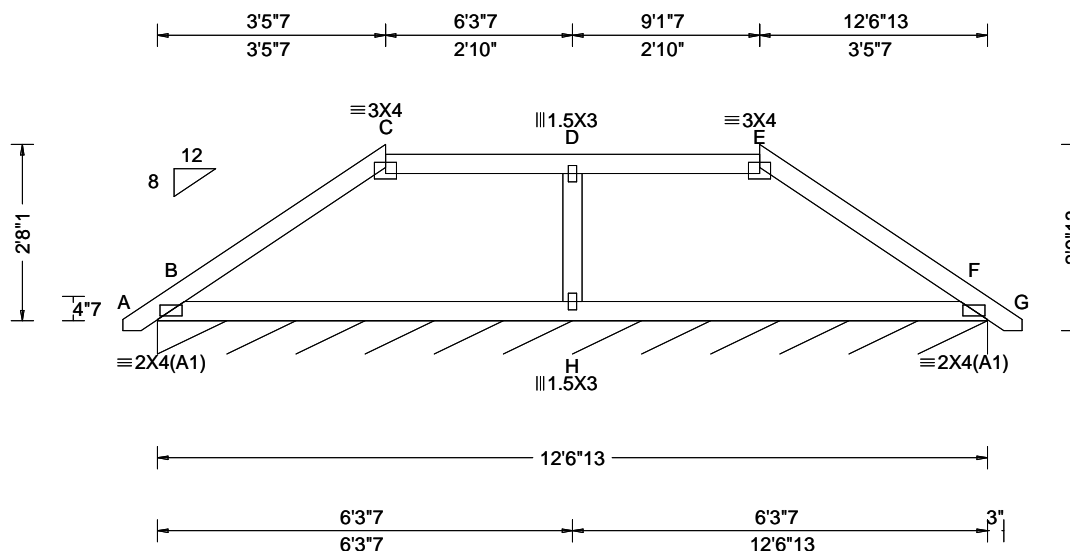
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29985 / FROM: RJL	COMN Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: PB1 13'8" Common	Cust: R 857 JRef: 1Y9K8570005 T50 / DrwNo: 119.25.1524.24719 SSB / WHK 04/29/2025
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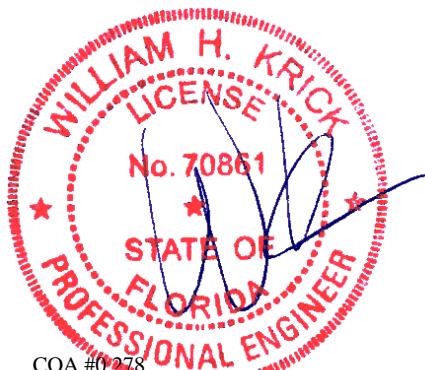
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.45 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 C 999 360 VERT(CL): 0.030 E 999 240 HORZ(LL): -0.002 B - - HORZ(TL): 0.014 D - - Creep Factor: 2.0 Max TC CSI: 0.099 Max BC CSI: 0.269 Max Web CSI: 0.065  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B* 82 /- /- /37 /5 /4 Wind reactions based on MWFRS B Brg Wid = 150 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.  
Refer to DWG PB160220723 for piggyback details.



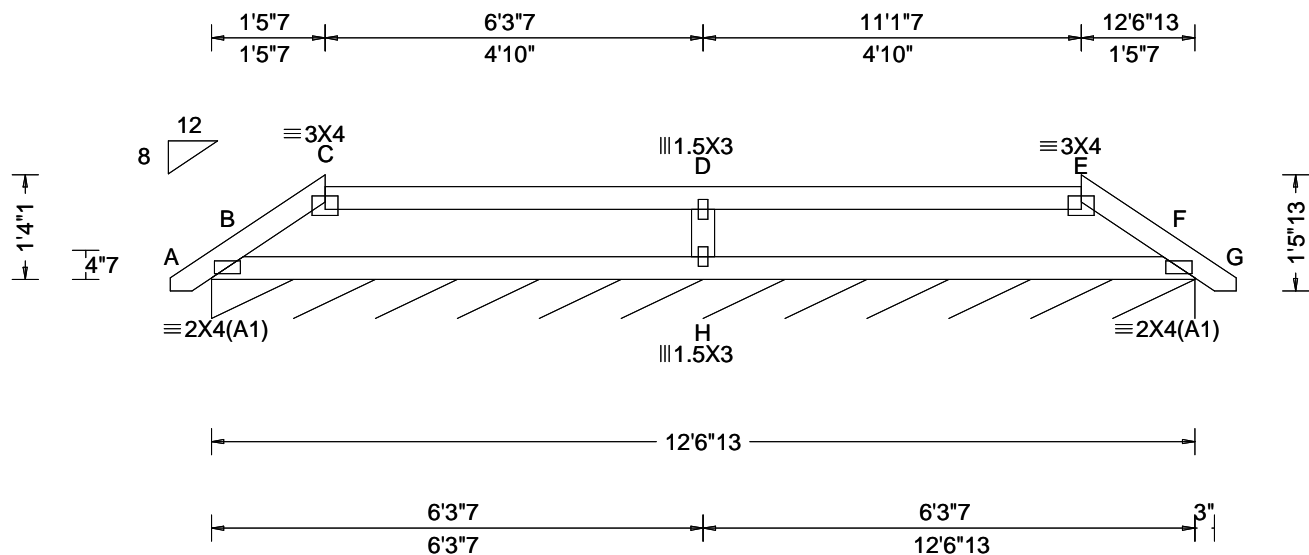
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29988 / FROM: RJL	COMN Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: PB2 13'8" Common	Cust: R 857 JRef: 1Y9K8570005 T49 / DrwNo: 119.25.1524.24126 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 20.78 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCp: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 C 999 360 VERT(CL): 0.007 C 999 240 HORZ(LL): -0.002 B - - HORZ(TL): 0.004 B - - Creep Factor: 2.0 Max TC CSI: 0.238 Max BC CSI: 0.262 Max Web CSI: 0.109 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 82 /- /- /36 /7 /1 Wind reactions based on MWFRS B Brg Wid = 150 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.  
Refer to DWG PB160220723 for piggyback details.



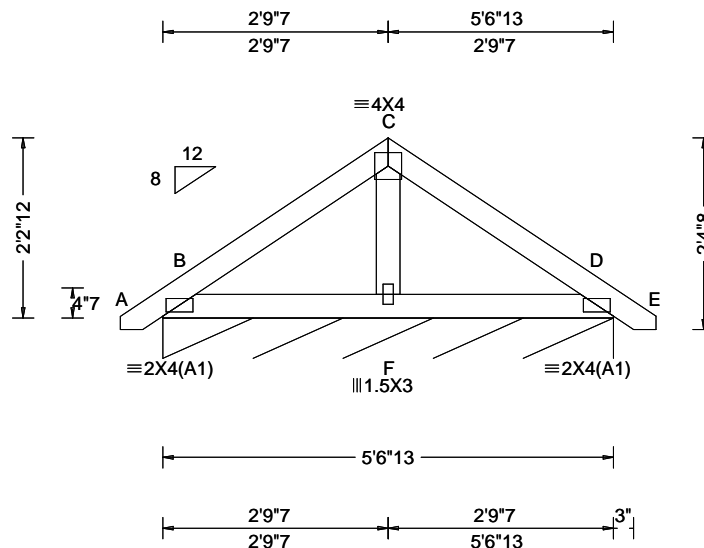
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SEQN: 29990 / FROM: RJL	COMN Ply: 1 Qty: 12	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: PB3 6'8" Common	Cust: R 857 JRef: 1Y9K8570005 T3 / DrwNo: 119.25.1524.26033 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.23 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.001 B 999 360 VERT(CL): 0.001 B 999 240 HORZ(LL): -0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.072 Max BC CSI: 0.058 Max Web CSI: 0.010  VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B* 88 /- /- /40 /- /6 Wind reactions based on MWFRS B Brg Wid = 66.8 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

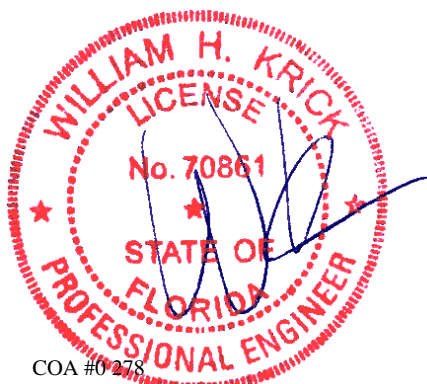
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

Refer to DWG PB160220723 for piggyback details.



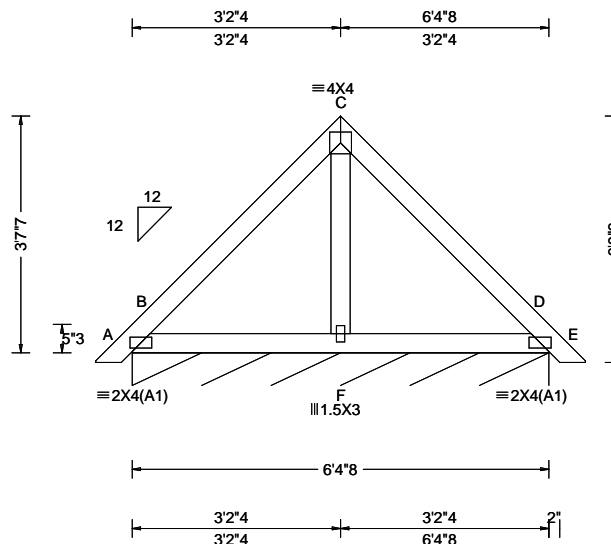
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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30585 / FROM: RJL	COMN Ply: 1 Qty: 34	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: PB4 7'6" Common	Cust: R 857 JRef: 1Y9K8570005 T4 / DrwNo: 119.25.1524.24235 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 23.74 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.000 D 999 360 VERT(CL): 0.001 D 999 240 HORZ(LL): -0.001 D - - HORZ(TL): 0.003 B - - Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.084 Max Web CSI: 0.040  VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 87 /- /- /42 /12 /11 Wind reactions based on MWFRS B Brg Wid = 76.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.  
Refer to DWG PB160220723 for piggyback details.



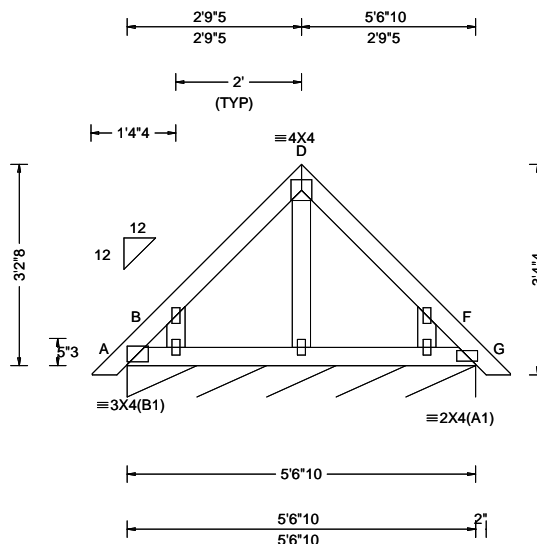
COA #0278

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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 30082 / FROM: RJL	GABL Ply: 1 Qty: 2	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: PB5-G 6'8"8 Gable	Cust: R 857 JRef: 1Y9K8570005 T51 / DrwNo: 119.25.1524.25235 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 23.53 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 360 VERT(CL): 0.001 D 999 240 HORZ(LL): -0.000 B - - HORZ(TL): 0.001 C - - Creep Factor: 2.0 Max TC CSI: 0.108 Max BC CSI: 0.025 Max Web CSI: 0.103 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B* 114 /- /- /51 /65 /16 Wind reactions based on MWFRS B Brg Wid = 66.6 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Plating Notes

All plates are 1.5X3 except as noted.

#### Loading

Truss designed to support 1-4-0 top chord outlookers and cladding load not to exceed 5.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

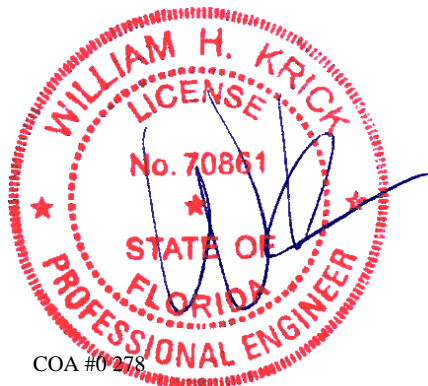
Wind loading based on both gable and hip roof types.

Gable meets L/120 deflection criteria for wind load applied to face. Calculated deflection ratio is L/999.

#### Additional Notes

Exposed portion of gable face shall be reinforced with sheathing and the wind pressures shall be transferred into lateral diaphragms. Connections and designs for diaphragms is the responsibility of the Building Designer in accordance with ANSI/TPI 1.

Refer to DWG PB160220723 for piggyback details.



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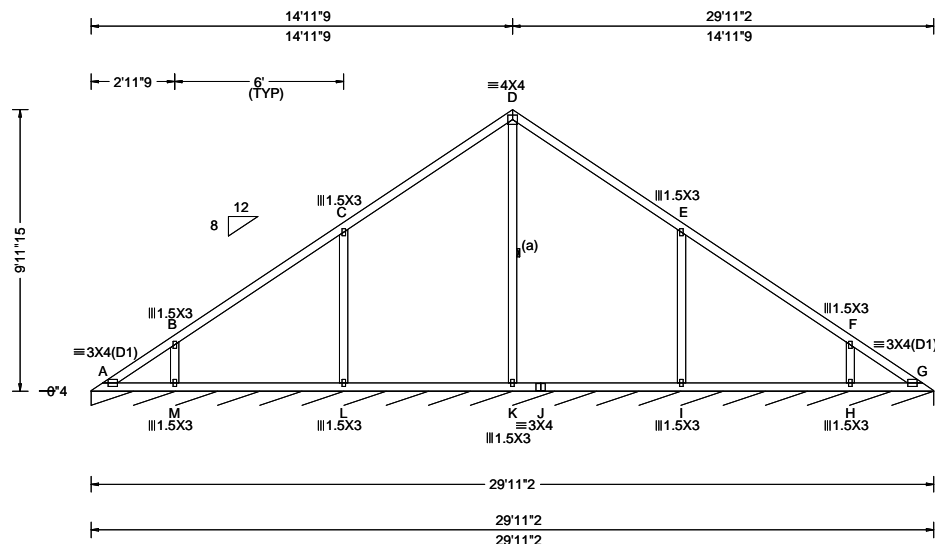
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 29692 / FROM: RJL	VAL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: V1 29'11"2 Valley	Cust: R 857 JRRef: 1Y9K8570005 T19 / DrwNo: 119.25.1524.25781 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 17.48 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.002 C 999 360 VERT(CL): 0.004 C 999 240 HORZ(LL): -0.001 A - - HORZ(TL): 0.004 C - - Creep Factor: 2.0 Max TC CSI: 0.386 Max BC CSI: 0.218 Max Web CSI: 0.256  VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL G* 77 /- /- /37 /- /6 Wind reactions based on MWFRS G Brg Wid = 359 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. Webs Tens. Comp. C - L 190 -396 I - E 190 -396

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" oc.

#### Wind

Wind loads based on MWFRS with additional C&C member design.

Wind loading based on both gable and hip roof types.

#### Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



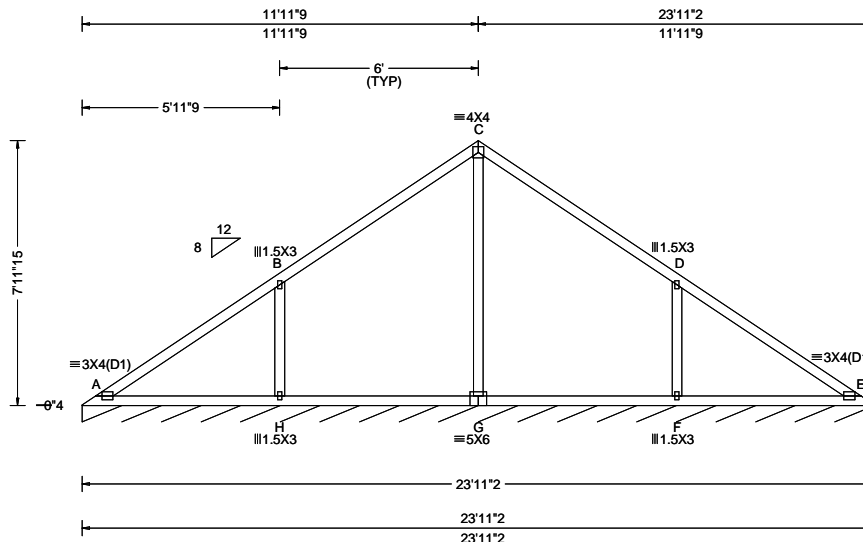
COA #0278

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**ALPINE**  
AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29694 / FROM: RJL	VAL Qty: 1	Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: V2 23'11"2 Valley	Cust: R 857 JRef: 1Y9K8570005 T21 / DrwNo: 119.25.1524.25703 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 18.48 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.013 E 999 360 VERT(CL): 0.025 E 999 240 HORZ(LL): 0.005 A - - HORZ(TL): 0.010 A - - Creep Factor: 2.0 Max TC CSI: 0.509 Max BC CSI: 0.272 Max Web CSI: 0.419 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL E* 77 /- /- /37 /- /6 Wind reactions based on MWFRS E Brg Wid = 287 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B - H 184 -397 F - D 184 -397

#### Lumber

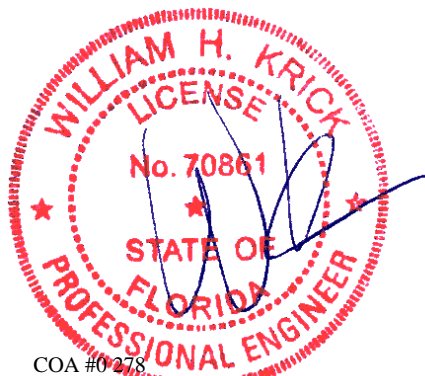
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.

#### Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



COA #0278

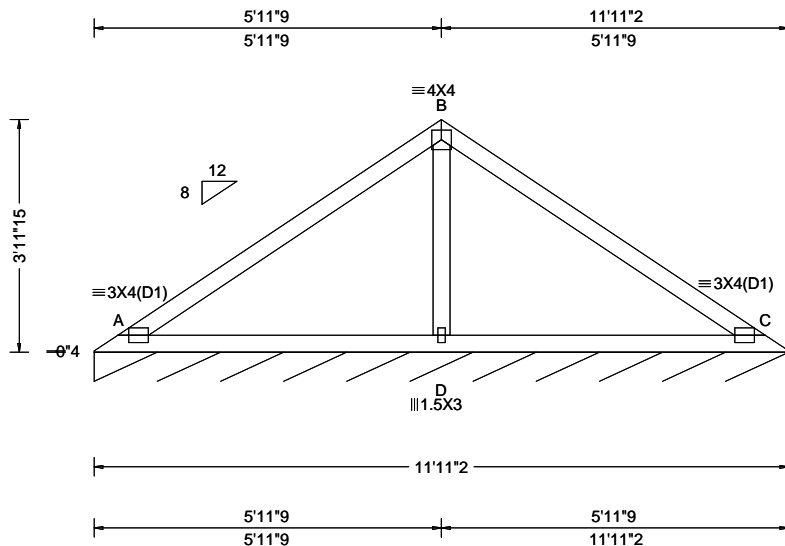
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Glenview, IL 60025



SEQN: 29698 / FROM: RJL	VAL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: V4 11'11"2 Valley	Cust: R 857 JRRef: 1Y9K8570005 T26 / DrwNo: 119.25.1524.24469 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 20.48 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA  Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.018 A 999 360 VERT(CL): 0.035 A 999 240 HORZ(LL): -0.009 C - - HORZ(TL): 0.018 C - - Creep Factor: 2.0 Max TC CSI: 0.384 Max BC CSI: 0.327 Max Web CSI: 0.192  VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 77 /- /- /36 /- /6 Wind reactions based on MWFRS C Brg Wid = 143 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp. A - B 413 -144 B - C 413 -141  <b>Maximum Web Forces Per Ply (lbs)</b> Webs Tens.Comp. B - D 256 -645

#### Lumber

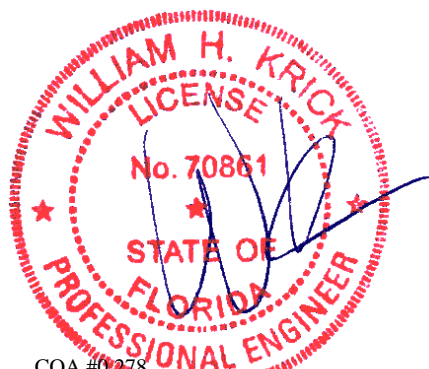
Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.

#### Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



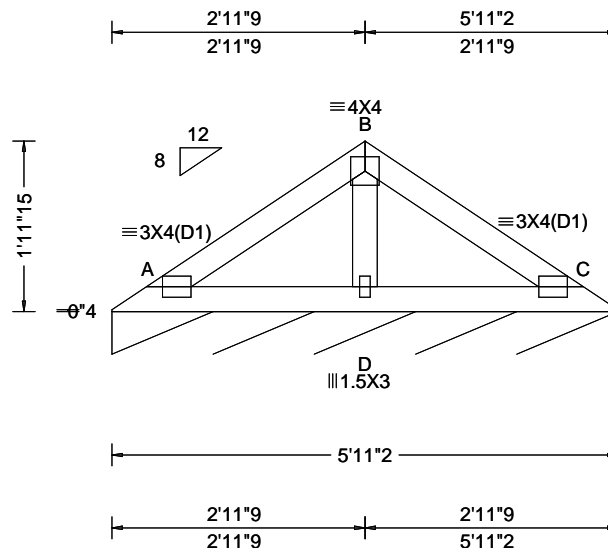
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SEQN: 29700 / FROM: RJL	VAL Ply: 1 Qty: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: V5 5'11"2 Valley	Cust: R 857 JRef: 1Y9K8570005 T34 / DrwNo: 119.25.1524.25891 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 21.48 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.002 C 999 360 VERT(CL): 0.004 C 999 240 HORZ(LL): -0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.073 Max BC CSI: 0.068 Max Web CSI: 0.042 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL C* 76 /- /- /35 /1 /5 Wind reactions based on MWFRS C Brg Wid = 71.1 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.

#### Additional Notes

See DWGS VALTN220723 and VAL180220723 for valley details.



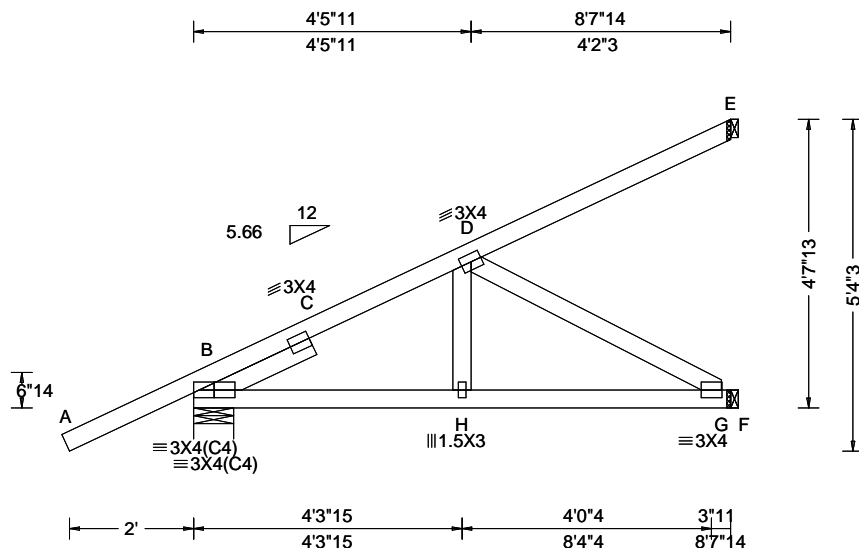
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29675 / FROM: RJL	HIP_ Qty: 2	Ply: 1	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: JA 8'7"14 Hip Jack Girder	Cust: R 857 JRef: 1Y9K8570005 T9 / DrwNo: 119.25.1524.25798 SSB / WHK 04/29/2025
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.007 H 999 360 VERT(CL): 0.014 H 999 240 HORZ(LL): -0.003 C - - HORZ(TL): 0.006 C - - Creep Factor: 2.0 Max TC CSI: 0.306 Max BC CSI: 0.210 Max Web CSI: 0.188 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 292 -/- /- /- /19 -/ F 260 -/- /- /24 -/- /- E 184 -/- /- /- /43 -/ Wind reactions based on MWFRS B Brg Wid = 7.7 Min Req = 1.5 (Truss) F Brg Wid = 1.5 Min Req = - E Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp. Chords Tens. Comp.

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Webs: 2x4 SP #3;  
Lt Slider: 2x4 SP #3; block length = 1.958'

#### Loading

Hipjack supports 6-1-8 setback jacks with no webs.

#### Wind

Wind loads and reactions based on MWFRS.  
Wind loading based on both gable and hip roof types.



COA #0278

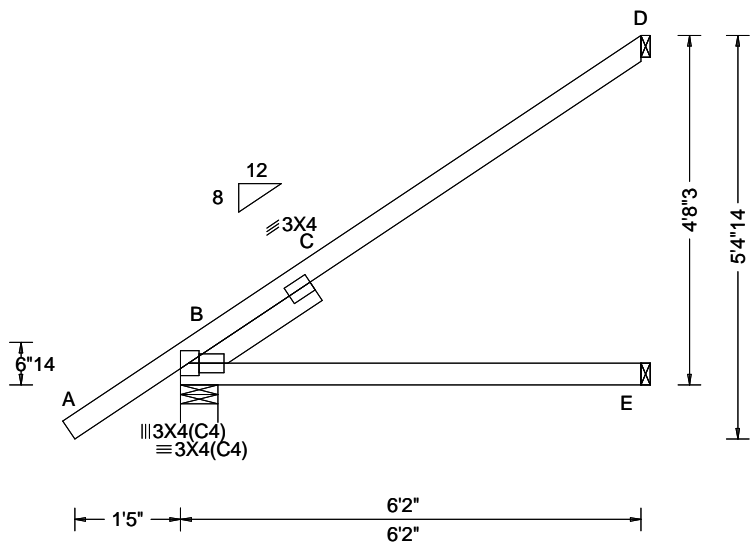
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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025



SEQN: 29677 / FROM: RJL	EJAC Ply: 1 Qty: 16	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: JB 6'2" End Jack	Cust: R 857 JRef: 1Y9K8570005 T55 / DrwNo: 119.25.1524.25734 SSB / WHK 04/29/2025
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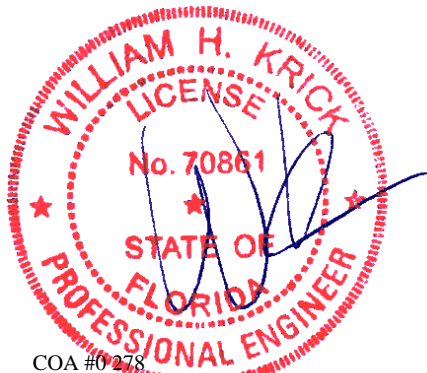
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.045 C - - HORZ(TL): 0.083 C - - Creep Factor: 2.0 Max TC CSI: 0.402 Max BC CSI: 0.302 Max Web CSI: 0.213 VIEW Ver: 24.02.00C.1213.15	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 355 - / - /143 - /117 E 108 - / - /65 - / - D 143 - / - /90 /61 - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Lt Slider: 2x4 SP #3; block length = 1.958'

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.



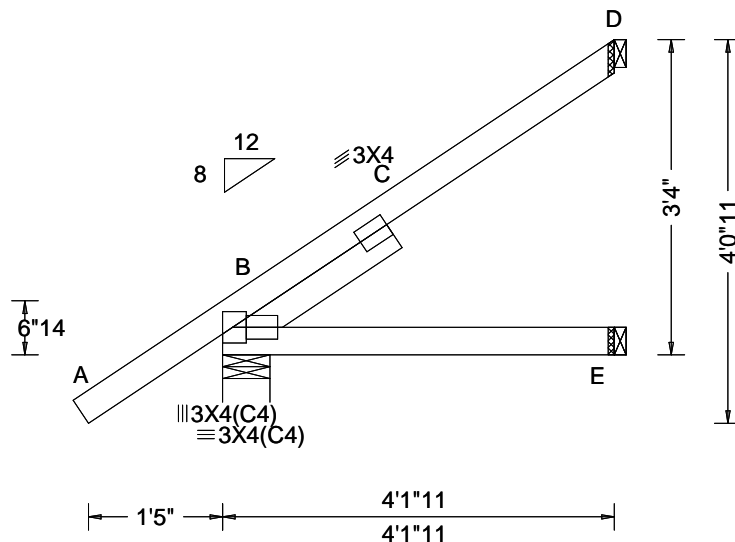
COA #0278

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AN ITW COMPANY  
155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

SEQN: 29679 / FROM: RJL	JACK Ply: 1 Qty: 4	Job Number: B60868a BORCHARDT RESIDENCE Truss Label: JC 4'1"11 Jack	Cust: R 857 JRef: 1Y9K8570005 T53 / DrwNo: 119.25.1524.24798 SSB / WHK 04/29/2025
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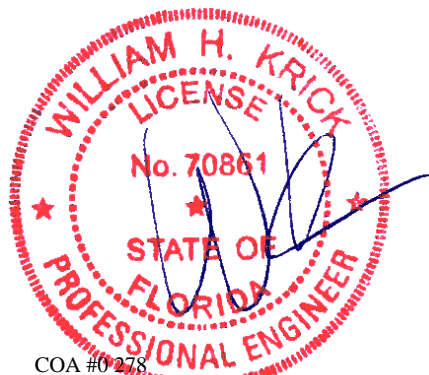
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 7.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 37.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-22 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: B Kzt: NA Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.010 C - - HORZ(TL): 0.020 C - - Creep Factor: 2.0 Max TC CSI: 0.162 Max BC CSI: 0.114 Max Web CSI: 0.092 VIEW Ver: 24.02.00C.1213.15	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 285 - / - / - /106 - /85 E 69 - / - / - /42 - /- D 86 - / - / - /60 /40 - Wind reactions based on MWFRS B Brg Wid = 6.0 Min Req = 1.5 (Truss) E Brg Wid = 1.5 Min Req = - D Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# <b>Maximum Top Chord Forces Per Ply (lbs)</b> Chords Tens.Comp.

#### Lumber

Top chord: 2x4 SP #1;  
Bot chord: 2x4 SP #1;  
Lt Slider: 2x4 SP #3; block length = 1.958'

#### Wind

Wind loads based on MWFRS with additional C&C member design.  
Wind loading based on both gable and hip roof types.



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# Gable End Wind Bracing Details - Stiffback w/ Diagonal Bracing

Apply single or double stiffback as per Engineer's sealed truss design referencing this detail.

Refer to Engineer's sealed truss design for additional information not provided on this detail.

The required locations for lateral restraint or bracing depicted on this detail are for the permanent lateral transfer and support to transfer load and reduce buckling lengths. Details shall be specified by the Building Designer or other Registered Design Professional. This Detail does not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed, and detailed by the Building Designer.

Refer to Building Designer for conditions not addressed by this detail.

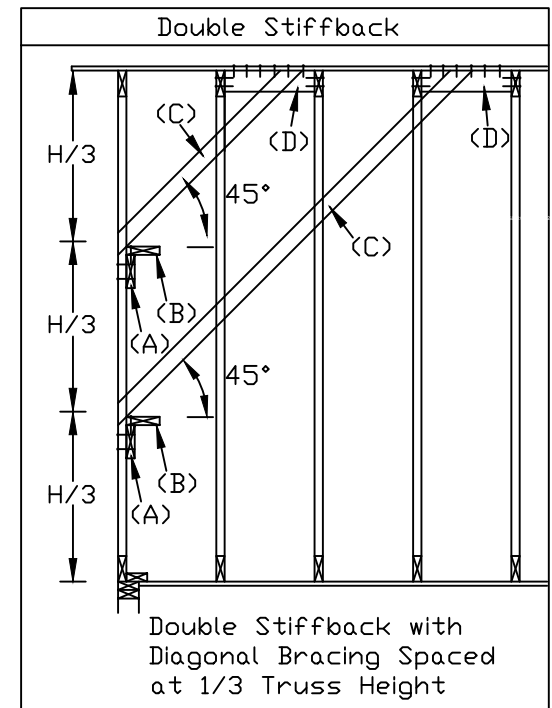
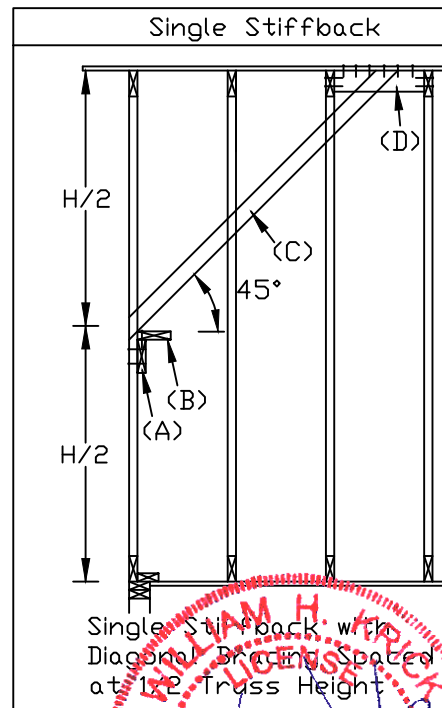
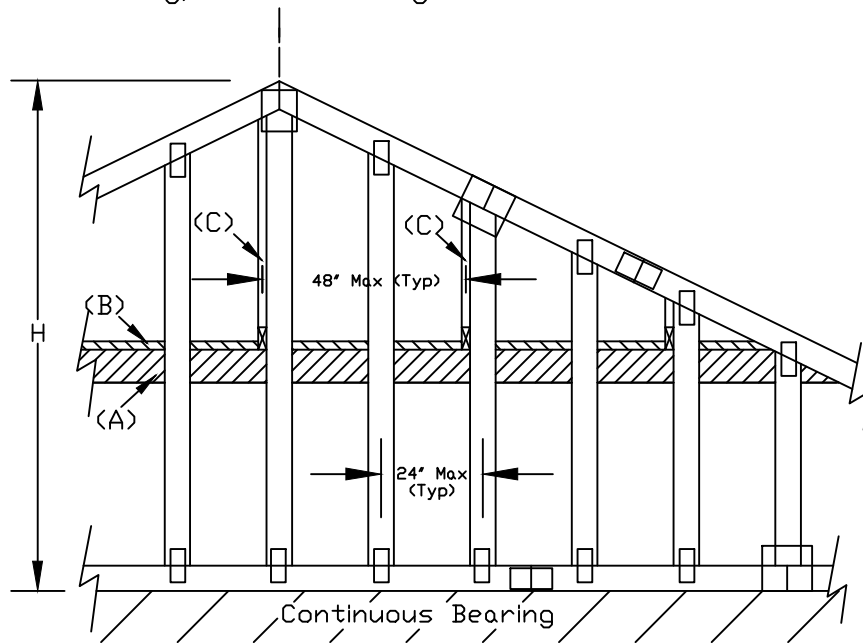
## Gable Lateral Bracing Components

(A) Stiffback. Provide connection to each intersecting stud and chord.

(B) L-reinforcement. Provide connection to narrow edge of stiffback.

(C) Diagonal brace. Provide connection to gable stud at bottom end and to blocking at top end.

(D) Blocking, cut to fit tight between trusses. Attach blocking to trusses at each end and to roof sheathing.



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No. 70861  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
COA #0 278  
Florida Certificate of Professional Approval #FL 1999

MAX. TOT. LD.  
04/30/2025  
MAX. SPACING

REF GE STIFFBACK  
DATE 09/27/2023  
DRWG GBLDIAG220923

# Piggyback Detail - ASCE 7-22: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

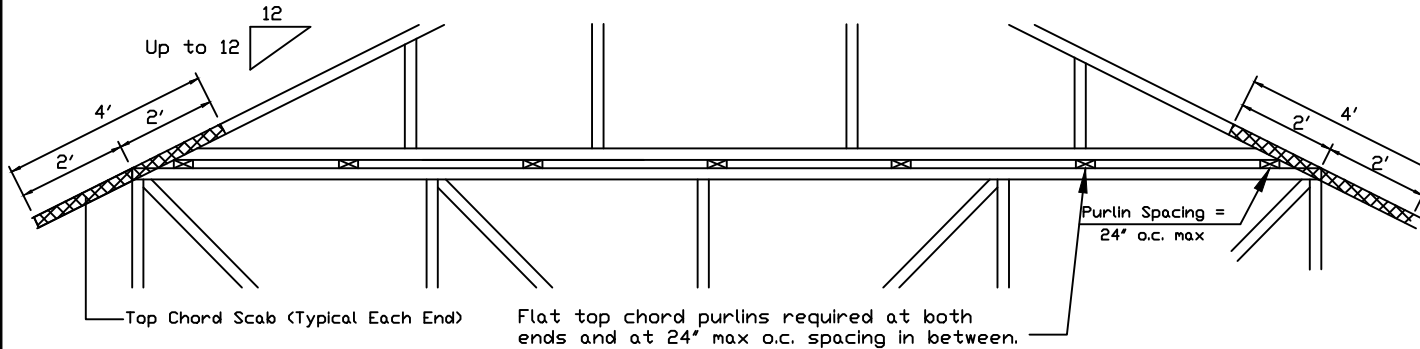
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.  
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-22, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building designer shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

\*\* Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

## Detail A : Purlin Spacing = 24" o.c. or less

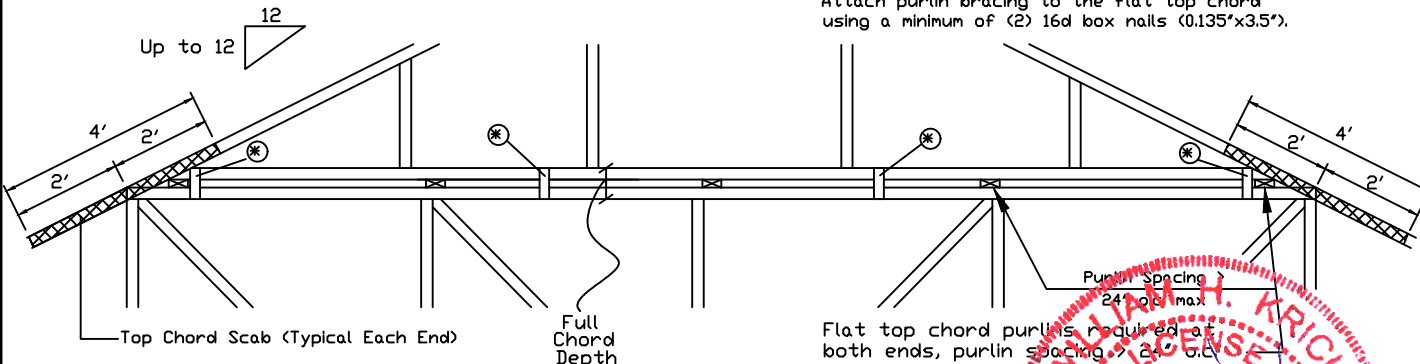


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

## Detail B : Purlin Spacing > 24" o.c.



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").

\* In addition, provide connection with one of the following methods:

<b>Trulox</b> Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.
<b>APA Rated Gusset</b> 8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.
<b>2x4 Vertical Scabs</b> 2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.
<b>28PB Wave Piggyback Plate</b> One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

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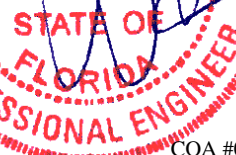
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155 Harlem Ave  
North Building, 4th Floor  
Glenview, IL 60025

No. 70861



COA #0 278  
Florida Certificate of Product Approval #FL-1999  
SPACING 24.0"

REF PIGGYBACK  
DATE 07/03/2023  
DRWG PB160220723



# Cracked or Broken Member Repair Detail

This drawing specifies repairs for a truss with broken chord or web member.

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail.

(B) = Damaged area, 12" max length of damaged section  
(L) = Minimum nailing distance on each side of damaged area (B)  
(S) = Two 2x4 or two 2x6 side members, same size, grade, and species as damaged member. Apply one scab per face.  
Minimum side member length(s) = (2)(L) + (B)

Scab member length (S) must be within the broken panel.

Nail into 2x4 members using two (2) rows at 4" o.c., rows staggered.  
Nail into 2x6 members using three (3) rows at 4" o.c., rows staggered.

Nail using 10d box or gun nails (0.128"x3", min) into each side member.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

This repair detail may be used for broken connector plate at mid-panel splices.

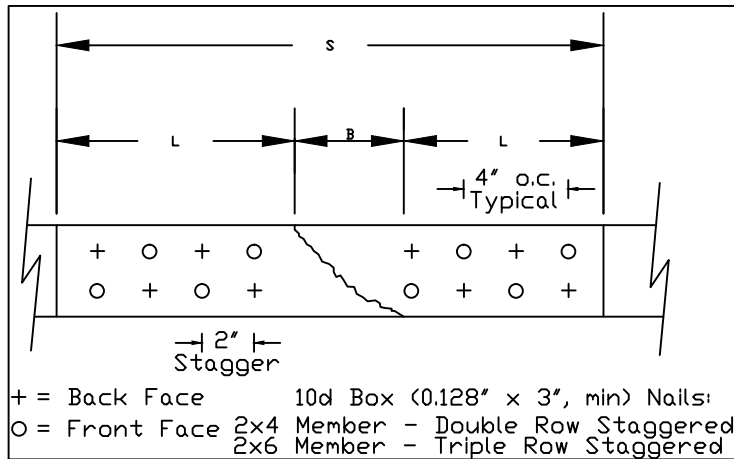
This repair detail may not be used for damaged chord or web sections occurring within the connector plate area.

Broken chord may not support any tie-in loads.

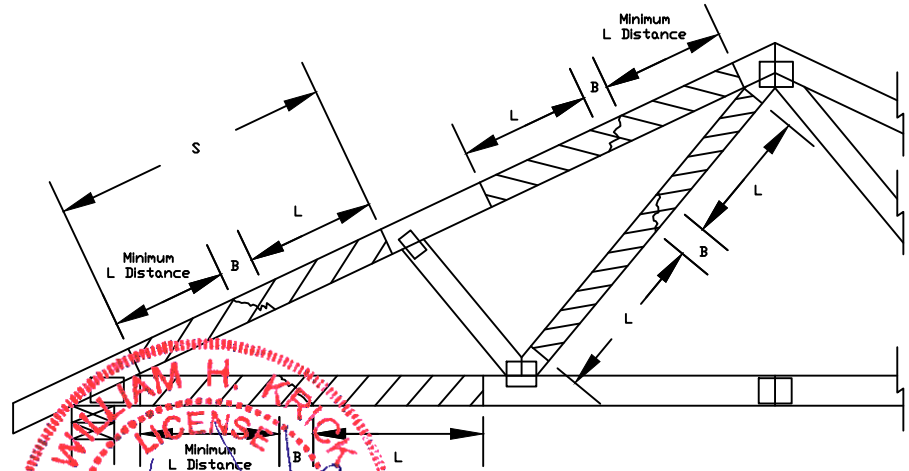
Load Duration = 0%

Member forces may be increased for Duration of Load

Member	Size	L	Maximum Member Axial Force			
			SPF-C	HF	DF-L	SYP
Web Only	2x4	12"	620#	635#	730#	800#
Web Only	2x4	18"	975#	1055#	1295#	1415#
Web or Chord	2x4	24"	975#	1055#	1495#	1745#
Web or Chord	2x6		1465#	1585#	2245#	2620#
Web or Chord	2x4	30"	1910#	1960#	2315#	2555#
Web or Chord	2x6		2230#	2365#	3125#	3575#
Web or Chord	2x4	36"	2470#	2530#	2930#	3210#
Web or Chord	2x6		3535#	3635#	4295#	4745#
Web or Chord	2x4	42"	2975#	3045#	3505#	3835#
Web or Chord	2x6		4395#	4500#	5225#	5725#
Web or Chord	2x4	48"	3460#	3540#	4070#	4445#
Web or Chord	2x6		5165#	5280#	6095#	6660#



Nail Spacing Detail



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North Building, 4th Floor  
Glenview, IL 60025

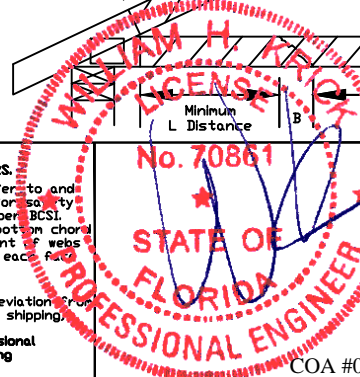
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A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this Job's general notes page and these web sites:  
ALPINE: [www.alpineitw.com](http://www.alpineitw.com) TPI: [www.tpinet.org](http://www.tpinet.org) SBCA: [www.sbcacomponents.com](http://www.sbcacomponents.com) ICC: [www.icccsa.org](http://www.icccsa.org)



COA #0 278

Florida Certificate

04/30/2025

SPACING

24.0" MAX

REF MEMBER REPAIR

DATE 10/01/14

DRWG REPCHRD1014

999



## Valley Detail - ASCE 7-22: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.  
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.  
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

\*\* Attach each valley to every supporting truss with:  
535# connection or with (1) Simpson H2.5A or  
equivalent connector for  
ASCE 7-22 180 mph, 30' Mean Height, Part. Enc.  
Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00  
Or  
ASCE 7-22 160 mph, 30' Mean Height, Part. Enc.  
Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7'-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

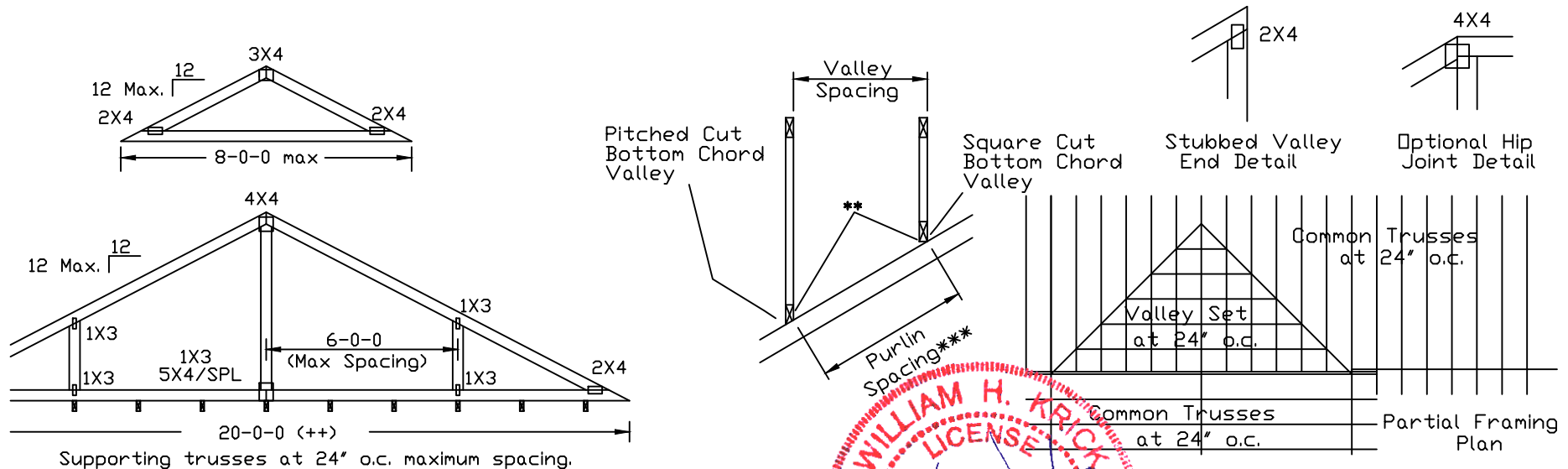
Top chord of truss beneath valley set must be braced with properly attached, rated sheathing applied prior to valley truss installation.

Or  
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

\*\*\* Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



**\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING**  
**\*\*\*IMPORTANT\*\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of walls shall have bracing installed per BCSI or as applicable. Apply plates to each end of all members of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering liability solely for the design of the truss. The stability analysis of the truss drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:  
 ALPINE: [www.alpinetpi.com](http://www.alpinetpi.com) TPI: [www.tpinj.org](http://www.tpinj.org) SBCA: [www.sbcacomponents.com](http://www.sbcacomponents.com) ICC: [www.iccsafe.org](http://www.iccsafe.org)

COA #0 278  
Florida Certi

TC	LL	30	30	40PSF	REF	VALLEY DETAIL
TC	DL	20	15	7 PSF	DATE	07/03/2023
BC	DL	10	10	10 PSF	DRWG	VAL180220723
BC	LL	0	0	0 PSF		
TOT.	L.D.	60	55	57PSF		
04/30/2025						
DUR.FAC.1.25/1.33/1.15/1.15						
date of Product Approval #FL 1999						
SPACING 24.0"						

# Valley Detail - ASCE 7-22: 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.  
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.  
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

\*\* Attach each valley to every supporting truss with:  
 (2) 16d box (0.135" x 3.5") nails toe-nailed for  
 ASCE 7-22, 30' Mean Height, Enclosed Building, Exp. C,  
 Wind TC DL=5 psf, Kzt = 1.00, Max. Wind Speed based on  
 supporting truss material at connection location:  
 140 mph for SP (G = 0.55, min.),  
 125 mph for DF-L (G = 0.50, min.), or  
 105 mph for HF & SPF (G = 0.42, min.).

Maximum top chord pitch is 10/12 for supporting trusses  
 below valley trusses.

Bottom chord of valley trusses may be square or  
 pitched cut as shown.

Valleys short enough to be cut as solid triangular  
 members from a single 2x6, or larger as required,  
 shall be permitted in lieu of fabricating from  
 separate 2x4 members.

All plates shown are Alpine Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical  
 valley webs taller than 7'-9" apply 2x4 "T" reinforcement, 80% length of  
 web, same species and grade or better, attached with 10d box  
 (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous  
 Lateral Restraint applied at mid-length of web is permitted with diagonal  
 bracing as shown in DRWG BRCLBANC1014.

Top chord of truss beneath valley set must be braced with:  
 properly attached, rated sheathing applied prior to valley truss  
 installation.

Or

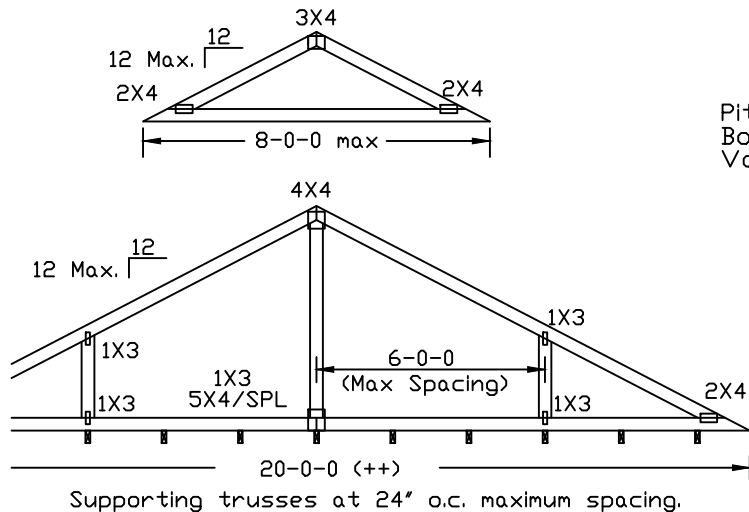
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design

Or

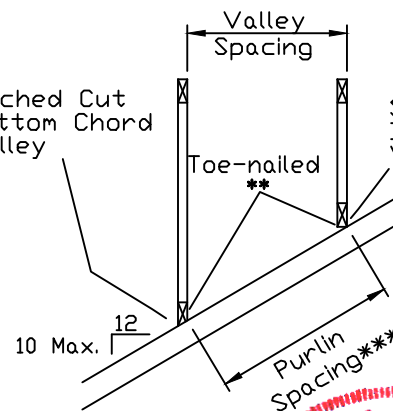
By valley trusses used in lieu of purlin spacing as specified on  
 Engineer's sealed design.

\*\*\* Note that the purlin spacing for bracing the top chord of the truss  
 beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does  
 not exceed 14'-0".



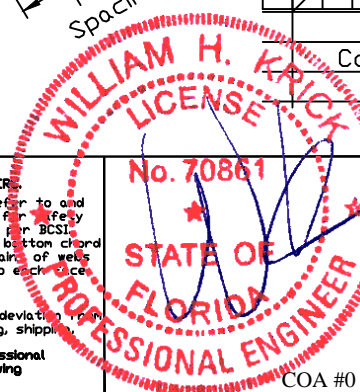
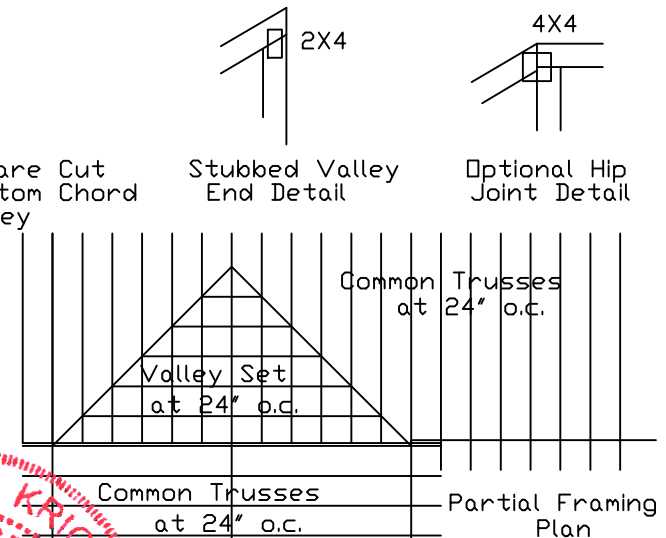
Pitched Cut  
 Bottom Chord  
 Valley



Square Cut  
 Bottom Chord  
 Valley

Stubbed Valley  
 End Detail

Optional Hip  
 Joint Detail



155 Harlem Ave  
 North Building, 4th Floor  
 Glenview, IL 60025

**WARNING: READ AND FOLLOW ALL NOTES ON THIS DRAWING**  
**IMPORTANT: FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLER.**  
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing for BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. Apply plates to each side of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.  
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.  
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 For more information see this job's general notes page and these web sites:  
 ALPINE: [www.alpineitw.com](http://www.alpineitw.com); TPI: [www.tpinst.org](http://www.tpinst.org); SBCA: [www.sbcacomponents.com](http://www.sbcacomponents.com); ICC: [www.iccsafe.org](http://www.iccsafe.org)

COA #0 278

Florida Certificate of Professional Engineer

TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7 PSF	DATE	07/03/2023
BC DL	10	10	10 PSF	DRWG	VALTN220723
BC LL	0	0	0 PSF		
TOT. LD.	60	55	57PSF		
DUR.	25	1.33	1.15		
SPACING	24"				